



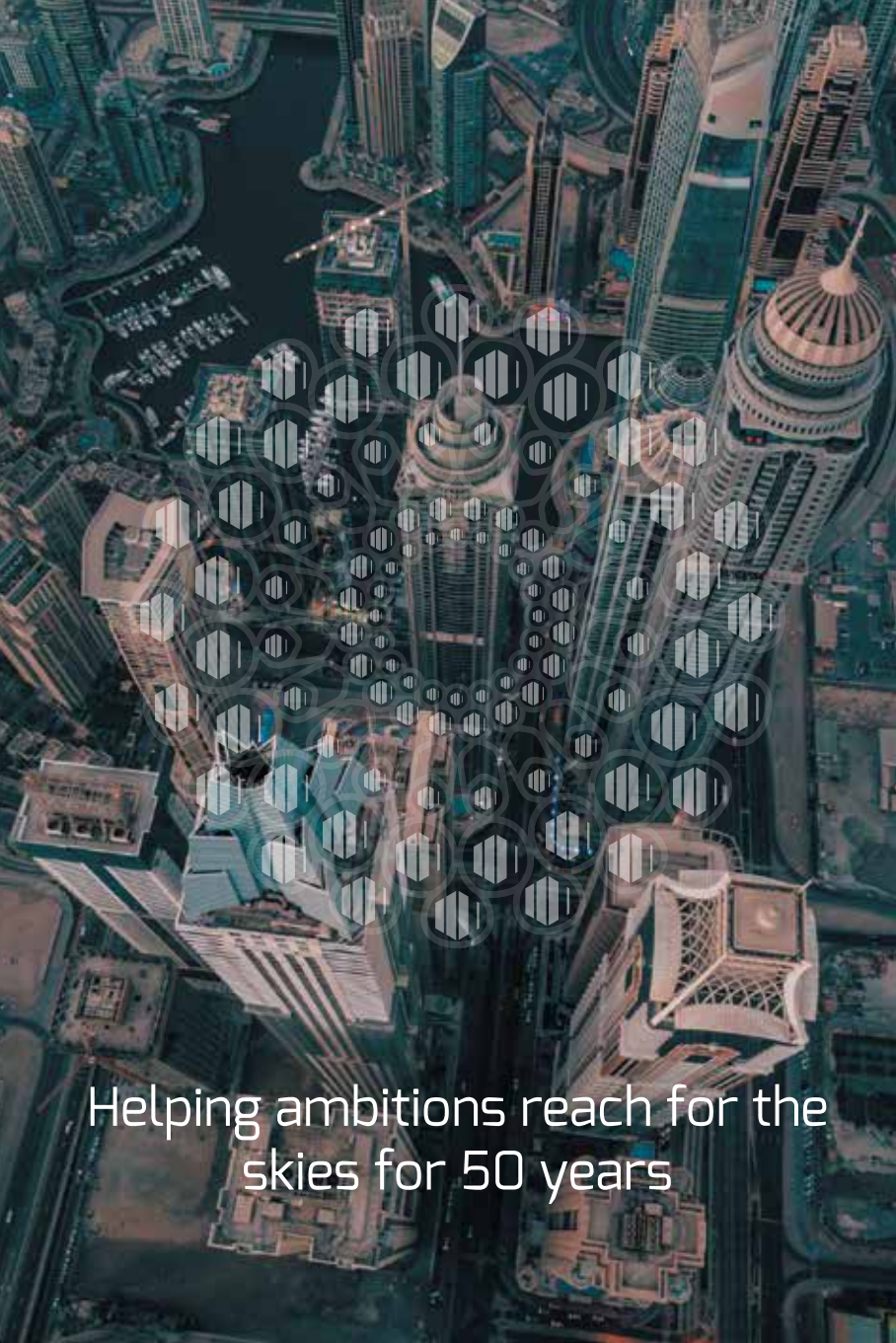
LONGS
FLATS
TUBULARS
VALUE ADDED STEEL PRODUCTS

Celebrating Pride, Forged with
Passion as Strong as Steel

THE STRUCTURAL STEEL
SPECIFICATION HANDBOOK



DBMSC/QMP07/R6



Helping ambitions reach for the
skies for 50 years





VALUE ADDED STEEL PRODUCTS



STAINLESS STEEL LONG PRODUCTS

SQUARE HOLLOW SECTIONS & RECTANGULAR HOLLOW SECTIONS

Size	Thickness
25mm to 100 mm	1 mm to 3mm

CHANNELS

Size	Thickness
12.7mm to 100 mm	1 mm to 4 mm

ANGLES

Size	Thickness
20mm to 150mm	1.5mm to 12 mm

ROUND BARS

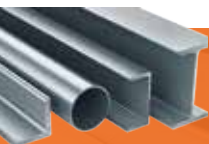
Size	Finish
3mm to 150 mm	BRIGHT

SCH ERW PIPES

Size	Thickness
1/2" to 16"	SCH 40, STD

FLAT BARS

Size	Finish
20mm to 150mm	3mm to 12mm



ALUMINIUM/ ZINC COILS, ELECTRO GALVANIZED SHEETS, COILS AND PLATES

ALUMINIUM ZINC SHEETS/COILS

Grade: ASTM A792



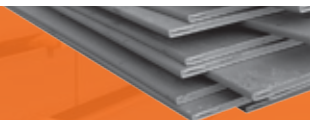
Size/ Width	Thickness
1.2 x 2.4 mtr.	0.4 mm - 4 mm

ELECTRO GALVANIZED SHEETS/COILS

Grade: JIS G 3313



Size/ Width	Thickness
1.2 x 2.4 mtr.	0.4 mm - 4 mm



PPGI COILS AND EXPANDED METAL

PPGI COILS

Grade: JIS G 3312/A653



Size/ Width	Thickness
1040/1070/1090/1219 mm	0.28 mm - 0.68 mm

ALUMINIUM CORRUGATED SHEETS

Grade: AA 3003



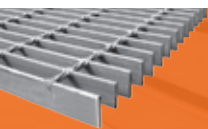
Size/ Width	Thickness
08 ft.	0.4 mm
12 ft.	0.4 mm

MILD STEEL EXPANDED METAL

Grade: JIS G 3351

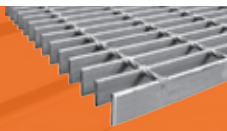


SIZE	Wt / Pc (KG)
4' x 8' x 2.0 mm	07.46
4' x 8' x 2.3 mm	09.48
4' x 8' x 3.0 mm	13.90
4' x 8' x 3.2 mm	17.60
4' x 8' x 4.0 mm	27.50
4' x 8' x 4.5 mm	30.90
4' x 8' x 6.0 mm	54.40
4' x 8' x 8.0 mm	93.30


DBMSC
STEEL

GRATINGS**TYPE - PLAN OR SERRATED | PANEL SIZE - 1M X 6M****SPECIFICATION - The load bearing bar confirms to the ASTM A36. BS4360 GR43A or equivalent grade**

Load Bearing Bar (mm)	Pitch Size (mm)	Mass Kg/m ²
20 x 3 mm	30 x 100	18.85
	40 x 100	14.60
20 x 5 mm	30 x 100	29.51
	40 x 100	22.45
25x 3 mm	30 x 100	22.80
	40 x 100	17.55
30 x 3 mm	30 x 100	26.85
	40 x 100	20.50
30 x 5 mm	30 x 100	42.87
	40 x 100	32.27
32 x 3 mm	30 x 100	28.45
	40 x 100	21.67
32 x5 mm	30 x 100	45.54
	40 x 100	34.24
35 x 3 mm	30 x 100	30.85
	40 x 100	23.43
40 x 3 mm	30 x 100	34.90
	40 x 100	26.40
40 x 5 mm	30 x 100	56.20
	40 x 100	42.10







GRADES & SPECIFICATIONS



STEEL GRADES
STRUCTURAL STEEL
 Structural Steel grades according to the following national
 and international standards can be supplied:

Euro EU	Italian UNI	German DIN	American ASTM - SAE	French NF	Japan JIS
S235JR	FE360B	ST37-2	SAE1015	E24-2	SM400A
S275JR	FE430B	ST44-2	SAE1020	E28-2	
E295	FEE290	ST50-2		A50-2	
S355JR					
S355J0	Fe510C	St52-3U		E36-3	SS490B
S355JR	FE510B		A633 Gr. A,C,D	E36-2	SM490A
S235J2			A36		
P235GH	FE360-1KW	HI	A285 Gr. C - A414 Gr. C	A37CP	SPV24
S275N		STE285			SM400B
S275NL		TSTE285	A633A		
S355NL		TSTE355	A633C	E355FP	
S420N		STE420		E420R	SM490C
S420NL		TSTE420	A633E	E420FP	
S460N		STE460		E460R	SM520B



Euro EU	Italian UNI	German DIN	American ASTM - SAE	French NF	Japan JIS
S460NL		TSTE460		E460FP	
S275M		STE285TM			
S275ML		TSTE285TM			
S355ML		TSTE355TM	A945 Gr. 50	E355FP	
S420M		STE420TM		E420R	
S420ML		TSTE420TM	A945 Gr. 60	E420FP	
XS460M		STE460TM		E460R	
S460ML		TSTE460TM		E460FP	
S355		ST52-3	GR50	E36	SM490B/C/YA
S460			GR65		SM570
S235J0	FE360C	ST37-3U		E24-3	SM400B
S275J0	FE430C	ST44-3U	A572 Gr. 42	E28-3	
S235J2(+N)	FE360D	ST37-3N	A284 Gr. D	E24-4	SM400C
S275J2(+N)	FE430D	ST44-3N	A572 Gr. 42	E28-4	
S355J2(+N)	FE510D	ST52-3N	A572 Gr. 50	E36-3	SM490C
S355K2(+N)				E36-4	SM490YB



CONVERSION FACTOR TABLES

LENGTH

Inches	Feet	Yards	Miles	Millimeters	Meters
1	0.08333333	0.02777778	0.0000157828	25.4	0.0254
12	1	0.3333333	0.0001893939	304.8	0.3048
36	3	1	0.0005681818	914.4	0.9144
63360	5280	1760	1	1,609,344	1,609.344
0.03937008	0.003280840	0.001093613	0.0000006213712	1	0.001
39.37008	3.280840	1.093613	0.0006213712	1,000	1

AREA

Sq. Inches	Sq. Feet	Sq. Yards	Acres	Sq. Miles	Sq. Cm	Sq. Meters	Hectares
1	0.006944444	0.000771605	0.0000229568	0.0000003228	6.4516	0.00064516	
144	1	0.1111111	0.0002066116	0.0000000000	929.0304	0.09290304	
1296	9	1	1	0.0015625	8361.2736	0.8361274	
6272640	43560	4840	640	1	40468564.2	4046.856	0.4046856
4014489600	27878400	3097600				2,589,988.11	258.9988
0.1550003	0.001076391	0.000119599	0.0002471054	0.000000386102	1	0.0001	
1550.003	10.76391	1.195990	2.471054	0.003861022	10,000	1	1
15500031.0	107639.1	11959.90				10,000	

CAPACITY - VOLUME

Cu. Inches	Cu. Feet	Sq. Yards	Liters	Cu. Miles	U.S. Gals	Imp. Gals	Barrel
1	0.0005787037	0.00002143347	0.1638661	0.00001638706	0.004329004	0.03604675	
1728	1	0.03703704	28.31605	0.02831884	7.480520	6.228878	0.1781076
46656	27	1	764.5335	0.7645549	201.9740	168.1797	4.808905
61.02545	0.03531566	0.001307987	1	0.001000028	0.2641794	0.2199769	
61023.74	35.31467	1.307951	999.9720	1	264.1721	219.9708	6.289811
231	0.1336806	0.004951132	3.785306	0.003785412	1	0.8326799	
277.4175	0.1605426	0.005946021	4.545932	0.004546059	1.200942	1	
9702	5.614583	0.2079475	158.9828	0.1589873	42	34.97255	1



WEIGHT

Ounces	Pounds	Short Tons	Long Tons	Kilograms	Metric Tons	Newtons
1	0.0625	0.00003125	0.0000279018	0.02834952	0.00002834952	0.278014
16	1	0.0005	0.0004464286	0.4535924	0.0004535924	4.448222
32000	2000	1	0.8928571	907.1847	0.9071847	8896.444
35840	2240	1.12	1	1016.047	1.016047	9964.017
3527396	2204623	0.001102311	0.0009842065	1000	1	9.806650
35273.96	2204.623	1.102311	0.9842065	1	0.001	9.806650
3.596941	0.224809	0.00001124	0.0001004	0.101972	0.0001020	9806.650
					1	1

WEIGHT PER UNIT OF AREA

Lbs./Sq. Ft.	Lbs./Sq. In.	Kg./Sq. Cm.	Kg./Sq. M.	Short Ton./Sq. Ft.	Pascals	Kilopascals
1	0.006944444	0.0004882428	4.882428	0.0005	47.88026	0.047880
144	1	0.07030696	703.0696	0.072	6894.757	6.89476
2048.161	14.22334	1	10.000	1.024081	98066.50	98.06650
0.2048161	0.001422334	0.0001	1	0.0001024081	9.806650	0.0098067
2000	13.88889	0.9764855	9764.855	1	95760.52	95.76052
0.020885	0.00014504	0.0000102	0.1019716	0.00001044	1	0.001
20.88543	0.145038	0.010197	101.9716	0.0104427	1000	1

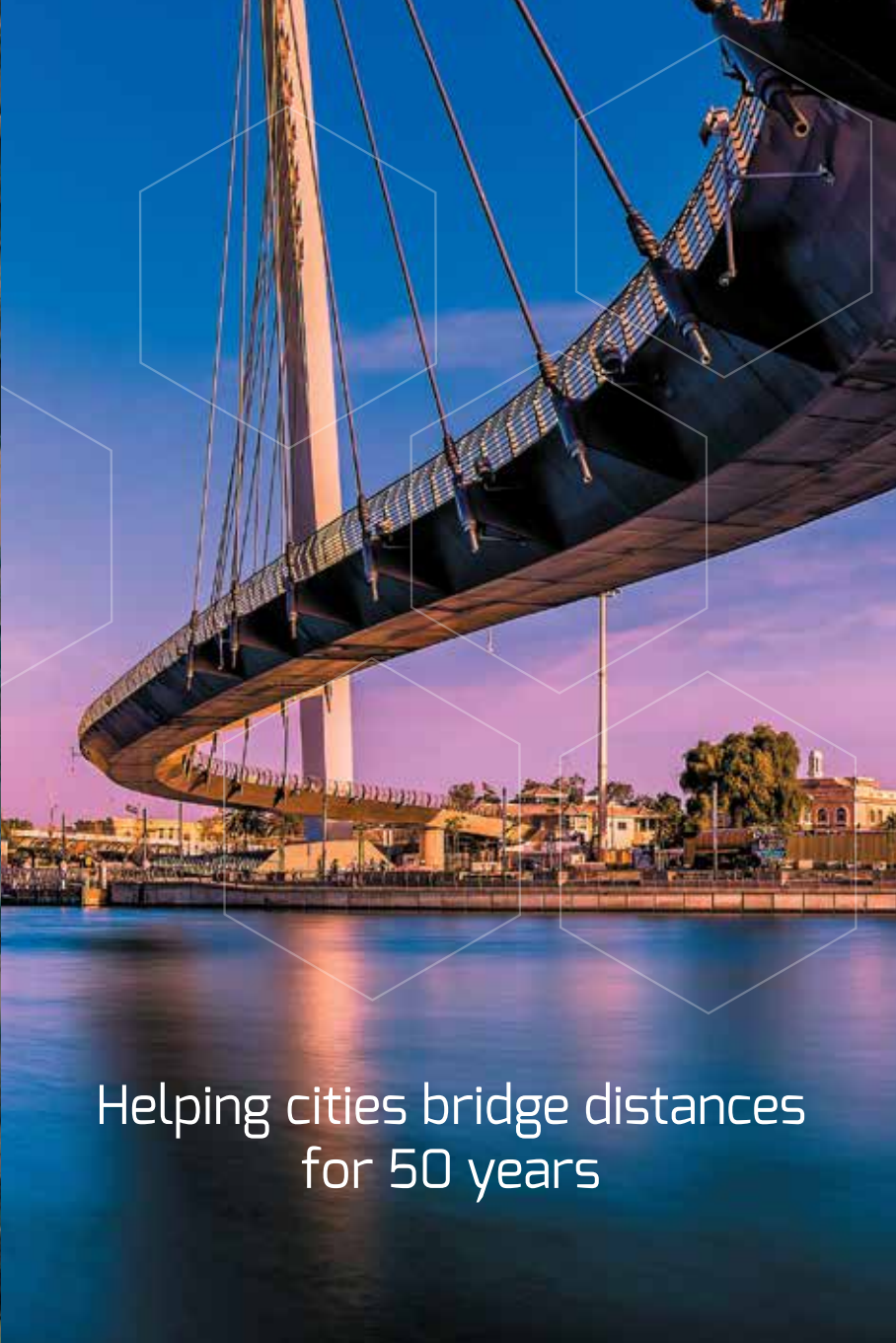
FORCE PER UNIT OF AREA, PRESSURE

Kg./Sq. Cm.	Oz./Sq. In.	Lbs./Sq. In.	Mm. Mercury (0°C)	Mm. Mercury (4°C)	In Water (4°C)	Kilopascals	Bar
1	227.5735	14.22334	735.5592	28.95902	393.7118	98.06650	0.980665
0.004394185	1	0.0625	3.232183	0.1272513	1.730042	0.430922	0.004309
0.07030696	16	1	51.71493	2.036021	27.68068	6.894757	0.068948
0.0013595098	0.3093884	0.01933677	1	0.03937008	0.5352550	0.133322	0.001333
0.03453155	7.858465	0.4911541	25.4	1	13.59548	3.38638	0.033864
0.002539929	0.5780205	0.03612628	1.868268	0.07355387	1	0.249082	0.002491
0.0101972	2.320606	0.1450377	7.500638	0.295301	4.014742	1	0.01
1.019716	232.06056	14.50368	750.06376	29.530059	401.47421	100	1

FORCE PER UNIT OF AREA, PRESSURE

Lbs./Sq. In.	Kips./Sq. In.	Kg./Sq. Mm.	Megapascals
1	0.001	0.00070307	0.00689476
1000	1	0.703070	6.894757
1422.33	1.42233	1	9.80665
145.03768	0.1450377	0.101972	1





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for 50 years

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