

Table 3 — Mechanical and physical properties of bolts, screws and studs

No.	Mechanical or physical property	Property class										
		4.6	4.8	5.6	5.8	6.8	8.8		9.8	10.9	12.9/12.9	
							σ_{TS} 10 mm ²	σ_{TS} 10 mm ²	σ_{TS} 10 mm ²			
1	Tensile strength, R_m , MPa	nom. ^a	400		500		600	800		900	1 000	1 200
		min.	400	420	500	520	600	600	800	900	1 040	1 220
2	Lower yield strength, R_{eL} ^b , MPa	nom. ^c	240	—	360	—	—	—	—	—	—	—
		min.	240	—	360	—	—	—	—	—	—	—
3	Stress at 0.2 % non-proportional elongation, $R_{p0.2}$, MPa	nom. ^c	—	—	—	—	—	640	640	720	900	1 080
		min.	—	—	—	—	—	640	660	720	940	1 100

Table 4 — Minimum ultimate tensile loads — ISO metric coarse pitch thread

Thread ^a <i>d</i>	Nominal stress area $A_{s, nom}$ ^b mm ²	Property class								
		4.6	4.8	5.6	5.8	6.8	8.8	9.8	10.9	12.9/12.9
		Minimum ultimate tensile load, $F_{t, min}$ ($A_{s, nom} \times R_{m, min}$), N								
M3	5,03	2 010	2 110	2 510	2 620	3 020	4 020	4 530	5 230	6 140
M3,5	6,78	2 710	2 850	3 390	3 530	4 070	5 420	6 100	7 050	8 270
M4	8,78	3 510	3 690	4 390	4 570	5 270	7 020	7 900	9 130	10 700
M5	14,2	5 680	5 960	7 100	7 380	8 520	11 350	12 800	14 800	17 300
M6	20,1	8 040	8 440	10 000	10 400	12 100	16 100	18 100	20 900	24 500
M7	28,9	11 600	12 100	14 400	15 000	17 300	23 100	26 000	30 100	35 300
M8	36,6	14 600 ^c	15 400	18 300 ^c	19 000	22 000	29 200 ^c	32 900	38 100 ^c	44 600
M10	58	23 200 ^c	24 400	29 000 ^c	30 200	34 600	46 400 ^c	52 200	60 300 ^c	70 800
M12	84,3	33 700	35 400	42 200	43 800	50 600	67 400 ^c	76 900	87 700	103 000
M14	115	46 000	48 300	57 500	59 800	69 000	92 000 ^d	104 000	120 000	140 000
M16	157	62 600	65 900	78 500	81 800	94 000	125 000 ^d	141 000	163 000	192 000
M18	192	76 600	80 600	96 000	99 800	115 000	150 000	—	200 000	234 000
M20	245	98 000	103 000	122 000	127 000	147 000	203 000	—	255 000	299 000
M22	303	121 000	127 000	152 000	158 000	182 000	252 000	—	315 000	370 000
M24	353	141 000	148 000	176 000	184 000	212 000	293 000	—	367 000	431 000
M27	459	184 000	193 000	230 000	239 000	275 000	381 000	—	477 000	560 000
M30	561	224 000	236 000	280 000	292 000	337 000	466 000	—	583 000	684 000
M33	694	278 000	292 000	347 000	361 000	416 000	576 000	—	722 000	847 000
M36	817	327 000	343 000	408 000	425 000	490 000	678 000	—	850 000	997 000
M39	976	390 000	410 000	488 000	508 000	586 000	810 000	—	1 020 000	1 200 000

Table 5 — Proof loads — ISO metric coarse pitch thread

Thread ^a <i>d</i>	Nominal stress area $A_{s, nom}$ ^b mm ²	Property class								
		4.6	4.8	5.6	5.8	6.8	8.8	9.8	10.9	12.9/12.9
		Proof load, F_p ($A_{s, nom} \times R_{p, min}$), N								
M3	5,03	1 130	1 560	1 410	1 910	2 210	2 920	3 270	4 180	4 880
M3,5	6,78	1 530	2 100	1 900	2 580	2 980	3 940	4 410	5 630	6 580
M4	8,78	1 980	2 720	2 460	3 340	3 860	5 100	5 710	7 290	8 520
M5	14,2	3 200	4 400	3 980	5 400	6 250	8 230	9 230	11 800	13 800
M6	20,1	4 520	6 230	5 630	7 640	8 840	11 600	13 100	16 700	19 500
M7	28,9	6 500	8 960	8 090	11 000	12 700	16 600	18 800	24 000	28 000
M8	36,6	8 240 ^c	11 400	10 200 ^c	13 900	16 100	21 200 ^c	23 800	30 400 ^c	35 500
M10	58	13 000 ^c	18 000	16 200 ^c	22 000	25 500	33 700 ^c	37 700	48 100 ^c	56 300
M12	84,3	19 000	26 100	23 600	32 000	37 100	48 900 ^c	54 800	70 000	81 800
M14	115	25 900	35 600	32 200	43 700	50 600	66 700 ^d	74 800	95 500	112 000
M16	157	35 300	48 700	44 000	59 700	69 100	91 000 ^d	102 000	130 000	152 000
M18	192	43 200	59 500	53 800	73 000	84 500	115 000	—	159 000	186 000
M20	245	55 100	76 000	68 600	93 100	108 000	147 000	—	203 000	238 000
M22	303	68 200	93 900	84 800	115 000	133 000	182 000	—	252 000	294 000
M24	353	79 400	109 000	98 800	134 000	155 000	212 000	—	293 000	342 000
M27	459	103 000	142 000	128 000	174 000	202 000	275 000	—	381 000	445 000
M30	561	126 000	174 000	157 000	213 000	247 000	337 000	—	466 000	544 000
M33	694	156 000	215 000	194 000	264 000	305 000	416 000	—	576 000	673 000
M36	817	184 000	253 000	229 000	310 000	359 000	490 000	—	678 000	792 000
M39	976	220 000	303 000	273 000	371 000	429 000	586 000	—	810 000	947 000

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I.S. EN ISO 898-1:2013. Mechanical properties of fasteners made of carbon steel and alloy steel - Part 1: Bolts, screws and studs with specific property classes - coarse thread and fine pitch thread (ISO 898-1: 2013). NSAI. National Standards Authority of Ireland, 2013

Railway Steel Structures Vivek Bhushan Sood, 2024-08-30 This book covers the basics of fabrication of railway steel structures. It covers the various types of steels, steel sections and structures involved along with fabrication methods. Further, some basics of design, handling and launching of fabricated components are covered, including case studies covering the consequences of errors or shortcuts adopted during fabrication. The latest trends in steel construction, adoption of steel for fast-paced construction, pre-engineered structures and use of steel for station redevelopment projects are also covered. This book aims to help the reader deliver economical and good quality structures speedily without time and cost overruns. This book introduces readers to the advantages and challenges of using steel as a material for railway bridges and other structures. Covers instructions and practices for fabrication of railway steel bridges duly linking with other aspects like design and erection to provide 360° view. Reviews the latest developments in the field including new materials, fabrication techniques and types of structures being adopted. Includes case studies to underline the importance of good fabrication practices and consequences of ignoring the same. This book is aimed at civil and mechanical engineering professionals connected with fabrication and erection of railway steel structures.

Compendium for Design and Manufacturing of Bolted Joints Toshio Hattori, Tomohiro Naruse, 2025-08-12 This book offers a practical and accessible guide to mechanics, material science and design engineering using real-world accident cases to illustrate key principles. It examines past accidents involving bolted joints, exploring mechanical failures, root causes and corrective measures. It also covers essential topics including mechanical analysis, initial tightening techniques and fundamental design methodologies followed by advanced discussions on strength design under axial, bending, transverse and torsional loads. Additional chapters address loosening mechanisms, prevention strategies and threaded joint applications in pipe fittings along with insights into delayed fracture mechanisms, fretting fatigue, countermeasures and emerging fastening technologies. The book also provides an overview of international screw fastening standards including ISO, JIS and VDI 2230.

Fatigue Design of Marine Structures Inge Løtsgberg, 2016-04-13 Fatigue Design of Marine Structures provides students and professionals with a theoretical and practical background for fatigue design of marine structures including sailing ships, offshore structures for oil and gas production and other welded structures subject to dynamic loading such as wind turbine structures. Industry expert Inge Løtsgberg brings more than forty years of experience in design and standards setting to this comprehensive guide to the basics of fatigue design of welded structures. Topics covered include laboratory testing, S-N data, different materials, different environments, stress concentrations, residual stresses, acceptance criteria, non-destructive testing, improvement methods, probability of failure, bolted connections, grouted connections and fracture mechanics. Featuring twenty chapters, three

hundred diagrams forty seven example calculations and resources for further study Fatigue Design of Marine Structures is intended as the complete reference work for study and practice

LaQue's Handbook of Marine Corrosion David A. Shifler,2022-07-13 The new edition of LaQue s classic text on marine corrosion providing fully updated control engineering practices and applications Extensively updated throughout the second edition of La Que s Handbook of Marine Corrosion remains the standard single source reference on the unique nature of seawater as a corrosive environment Designed to help readers reduce operational and life cycle costs for materials in marine environments this authoritative resource provides clear guidance on design materials selection and implementation of corrosion control engineering practices for materials in atmospheric immersion or wetted marine environments Completely rewritten for the 21st century this new edition reflects current environmental regulations best practices materials and processes with special emphasis placed on the engineering behavior and practical applications of materials Divided into three parts the book first explains the fundamentals of corrosion in marine environments including atmospheric corrosion erosion microbiological corrosion fatigue environmental cracking and cathodic delamination The second part discusses corrosion control methods and materials selection that can mitigate or eliminate corrosion in different marine environments The third section provides the reader with specific applications of corrosion engineering to structures systems or components that exist in marine environments This much needed new edition Presents a comprehensive and up to date account of the science and engineering aspects of marine corrosion Focuses on engineering aspects descriptive behavior and practical applications of materials usage in marine environments Addresses the various materials used in marine environments including metals polymers alloys coatings and composites Incorporates current regulations standards and recommended practices of numerous organizations such as ASTM International the US Navy the American Bureau of Shipping the International Organization for Standardization and the International Maritime Organization Written in a clear and understandable style La Que s Handbook of Marine Corrosion Second Edition is an indispensable resource for engineers and materials scientists in disciplines spanning the naval maritime commercial shipping industries particularly corrosion engineers ship designers naval architects marine engineers oceanographers and other professionals involved with products that operate in marine environments

Industrializing Additive Manufacturing Mirko Meboldt,Christoph Klahn,2020-09-01 This book contains the proceedings of the Additive Manufacturing in Product Development Conference The content focus on how to support real world value chains by developing additive manufactured series products

Corrosion and Corrosion Protection of Wind Power Structures in Marine Environments Andreas Momber,2024-04-07 Corrosion and Corrosion Protection of Wind Power Structures in Marine Environments Volume 2 Corrosion Protection Measures offers the first comprehensive review on corrosion and corrosion protection of offshore wind power structures The book extensively discusses corrosion phenomena and corrosion types in different marine corrosion zones including the modeling of corrosion processes and interactions between corrosion and structural stability The book

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Materials Design, Processing and Applications Xiang Hua Liu,Kai Feng Zhang,Ming Zhe Li,2013-05-14 Selected peer reviewed papers from the 4th International Conference on Manufacturing Science and Engineering ICMSE 2013 30 31 March 2013 Dalian China *House of Commons Parliamentary Papers* Great Britain. Parliament. House of Commons,1900

National Union Catalog ,1956 Includes entries for maps and atlases **Folia Forestalia** ,1982 **Statistical Abstract of the United States** ,1954 [Engineering Abstracts](#) ,1912 *International Catalogue of Scientific Literature [1901-1914]* ,1902 **Journal of the Chemical Society** ,1874 **Applied Chemistry Abstracts** ,1912 [50,000 Leading U.S. Corporations](#) ,1980 **The Encyclopaedia Britannica** Hugh Chisholm,1911 This eleventh edition was developed during the encyclopaedia s transition from a British to an American publication Some of its articles were written by the best known scholars of the time and it is considered to be a landmark encyclopaedia for scholarship and literary style

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