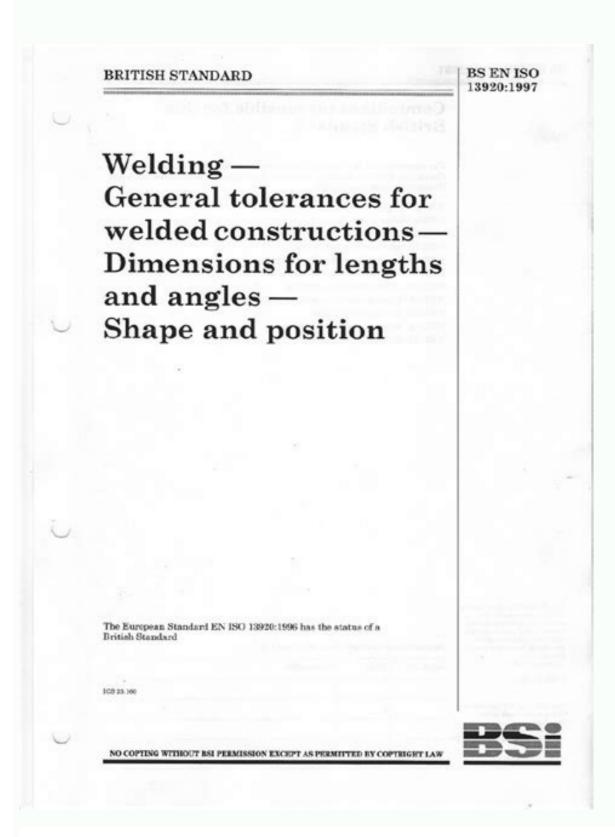
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CEMENT AND CONCRETE

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CONCRETE

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The following pages (17 – 28) detail the products required to install a 'Flat tape' lightning protection system. Additionally, accessories can be found on pages 39 – 40. Details of the flat tape conductors can be found in the Conductors section on pages 43 – 46.

Air ro						d
Rod length	Red dameter	Thread doneter	Material	Weight each	Part No.	
500mm	15mm	Hom	Copper	0.7.Ng	RA215	
1000mm	15mm	16 mm	Copper	1.5 Tkg	8A225	
1500mm	15mm	16mm	Copper	2.35kg	EA230	MEN
2000 Omen	15mm	15 mm	Copper	3.00kg	RA240	
3000mm	15mm	16 mm	Copper	4.70kg	RA250	HETCH
500mm	15mm	16-mm	Aluminium	0.29kg	8.A015	
1000mm	15mm	16mm	Aluminium	0.53kg	RAGES	
1500mm	15mm	36mm	Aluminium	0.80kg	RA030	HENN
2000mm	15mm	Hom	Numinium	1.06kg	RADED	
3000mm	15mm	16mm	Aluminium	1.60kg	8.A051	100

Manufactured from high conductivity hard drawn copper or aluminium, with rolled

threads. Supplied complete with locknut.

"Field Trials in the United States, carried out over many years research have confirmed that blunt air rods are struck by lightning in preference to taper pointed air rods."

"Lightning-rod inprovement stadies" by C 8 Moore, W Roon, J Mathie, G Aulich, Journal of Applied Materiology, May 2000. Note: during high winds and extreme weather conditions air rods over 1000mm long can be subjected to fatigue mechanisms. It is therefore recommended that additional supports are considered before installation.



S EN 50164-2

Mul	tiple	point

Rod diameter	Material	Weight each	Part No.
15mm	Copper	0.27kg	RA600

Manufactured from high conduct wity hard drawn copper, suitable for use with copper air rods only.

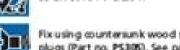
Air	rod	bas

Rod diameter	Thread diameter	Maximum conductor width	Material	Weight such	Part No.	
15mm	16nm	25mm	Соррег	0.40 kg	SID105-H	MIN
15mm	16mm	25mm	Aluminium	0.14lig	5 0003 44	HEW

Manufactured from high quality copper and aluminium alloys. Simple to install, providing an effective connection between air rod and air termination tape.



85 EN 50164-1 Class H



Fix using countersunk wood screws (Part no. SW005 or SW105) and wall plugs (Part no. P\$305). See page 39 for Accessories.



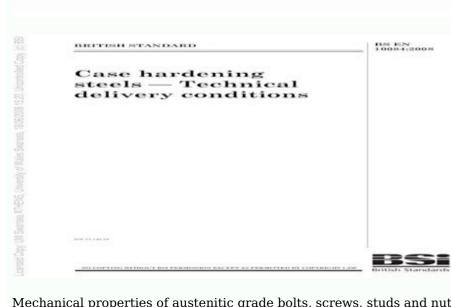
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DIN **DIN EN 10088-2** ICS 77.140.20; 77.140.50 Supersedes DIN EN 10088-2:2005-09 Stainless steels -Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for general purposes; English version EN 10088-2:2014, English translation of DIN EN 10088-2:2014-12 Nichtrostende Stable -Teil 2: Technische Lieferbedingungen für Blech und Band aus korrosionsbeständigen Stählen für allgemeine Verwendung: Englische Fassung EN 10088-2:2014, Englische Übersetzung von DIN EN 10088-2:2014-12 Aciers inoxydables -Partie 2: Conditions techniques de livraison des tôles et bandes en acier de résistance à la corrosion pour usage général; Version anglaise EN 10088-2:2014, Traduction anglaise de DIN EN 10088-2:2014-12 Document comprises 60 pages Translation by DIN-Sprachendienst. In case of doubt, the German-language original shall be considered authoritative.



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DNN Deutsches Institut für Normung e. V., Berlin, Berlin Verlag GmbH, 10773 Berlin, Dermany

Mechanical properties of austenitic grade bolts, screws, studs and nuts to BS EN ISO 3506[8].(from AD342) Property class Bolts, screws and studs Nuts Ultimate tensile strength (N/mm2) 50 500 210 500 70 700 450 700 80 800 600 800 For most structural applications, it is generally recommended that austenitic bolts grade A2 or A4 and property class 70 or 80 are used. The method that is most commonly used for shaping is to heat the steel to around 1,280°C in a reheat furnace and then roll the steel, squeezing it between sets of rolls. As leading British steel stockholders the Barrett Steel group comprises four divisions; General Steels: Engineering Steel: Tubes and Energy Products operate from locations across the UK. Ireland and the US. Dimensions and properties of these fasteners and fixings are provided by the manufacturers. The latter is the most commonly employed for structural applications. Today more efficient profiles have been developed for use as roof sheeting, wall cladding and decking for floors and are produced by a range of specialist manufacturers. NOTE 1 Products coated with (pure) aluminium can also be available, but are not covered by this European standard. A roughing stand reduces the continuously cast slab to an intermediate size by a series of reversing end-to-end passes through the mill. Some smaller more complex products, such as lintels, are formed using a press brake. [top]Duplex stainless steel with a lean chemical composition. The normal method of attachment is by self-drilling, self-tapping screws. This article reviews the various forms of steel construction products and describes how they are produced. They are typically 150-300mm deep and are sized and designed using Westok's freely available Cellbeam software package. This ensures coating adhesion - critical for manufacturing processes that stamp, roll or draw the steel into its final product shape. You're Reading a Free Preview Pages 31 to 42 are not shown in this preview. Light steel sections are manufactured by many different companies and the profile shapes and section sizes vary. Plate girders are used where standard rolled sections are inadequate in terms of load carrying capacity or stiffness. This process is illustrated below. You're Reading a Free Preview Pages 18 to 35 are not shown in this preview. The image shows a purlin being roll-formed from hot-dip galvanized strip steel. It is possible to ascertain the shape and dimensions of the existing structural steelwork by making a careful survey of the premises. SCI ↑ 8.0 8.1 BS EN ISO 3506-1:2020. All duplex steels are weldable, and have approximately twice the proof strength of austenitic stainless steels. ↑ BS EN 10210-2:2019 Hot finished steel structural hollow sections. Guidance on corrosion rates of zinc in a range of environments is available in The Engineer's and Architect's Guide: Hot-dip Galvanizing Cold roll-forming process Press braking [top]Profiled sheeting Thin gauge galvanized steel strip is also cold formed into sheets with a regular profile. ↑ BS EN 10219-2:2019 Cold formed welded steel structural hollow sections are all widely available in the stainless steels mentioned above. voestalpine Metsec plc is one of the UK's biggest construction specialist cold roll-forming companies, and part of the largest globally leading technology and capital goods group. Light steel sections are either used directly in fabrication of steel components, that are subsequently assembled into structures on site, or made into further products for use in construction. Light steel sections are produced in high volumes by cold rolling and in low volumes by press braking. Decking profiles [top]Cladding and Roofing Profiled sheeting is frequently used to form the weathertight building envelope and for this purpose sheets are produced with 1.0531 +Z, +ZF, +ZA, +ZM, +AZ 550 560 - In the grade designations given in the table: S - indicates that the product is dipped, galvanized Z and ZF, etc indicate the metallic coating applied to the steel, i.e. zinc (Z) and zinc-iron alloy (ZF), zinc-aluminium alloy (ZA), zinc-magnesium alloy (ZA), zinc-magnesium alloy (ZM), aluminium-zinc alloy (AZ) or aluminium-zinc alloy (Design Data, 2013A web-based interactive version of the 'Blue Book', is also available. The weld is formed instantly. There are two broad classes - shallow profiles, up to about 175 mm deep, which are used for short span applications, and 'deep decking', typically 225 mm deep, for longer spans. A range of structural sections (I-sections, angles, channels, tees, rectangular hollow sections) are stocked in the austenitic grades. The liquid metal cools and solidifies in the mould cavity and is then removed for cleaning. Steels of grade A4 contain molybdenum and have equivalent corrosion resistance to grade 1.4401. This reduction and reshaping process can be carried out hot or cold, which results in the distinction between 'hot finished' and 'cold formed' products. Steel castings are formed by pouring molten metal into a mould containing a cavity which has the desired shape of the component. A nominal yield strength of 355MPa is most commonly used in construction, although S460MPa sections are also available. USFBs can economically span up to 10m with structural depths that compare very favourably with R.C. flat slabs. There is a range of international standards for the materials and dimensions of bolts and nuts, including the various standards for the materials and dimensions of bolts and nuts, including the various standards for the materials and dimensions of bolts and nuts, including the various standards for the materials and dimensions of bolts and nuts, including the various standards for the materials and dimensions of bolts and nuts, including the various standards for the materials and dimensions of bolts and nuts, including the various standards for the materials and dimensions of bolts and nuts, including the various standards for the materials and dimensions of bolts and nuts, including the various standards for the materials and dimensions of bolts and nuts, including the various standards for the materials and dimensions of bolts and nuts, including the various standards for the materials and dimensions of bolts and nuts, including the various standards for the materials and dimensions of bolts and nuts, including the various standards for the materials and nuts, including the various standards for the materials and dimensions of bolts and nuts, including the various standards for the materials and nuts, including the various standards for the materials and nuts, including the various standards for the materials and nuts, including the various standards for the materials and nuts, including the various standards for the materials and nuts, including the various standards for the materials and nuts, including the various standards for the materials and nuts, including the various standards for the materials and nuts, including the various standards for the materials and nuts, including the various standards for the materials and nuts, including the various standards for the materials and nuts, including the various standards for the materials and nuts, including the various standards for the various standards fo Part 2 covers nuts; Part 3 covers set-screws; and Part 4 covers set-screws; and Part 4 covers set-screws; and stude are designated by a letter followed by three numbers, e.g. A2-70 or A4-80. This intermediate slab is then rolled to its final size in a finishing stand. [top]Austenitic stainless steels 1.4301 (formerly known as 304) and 1.4307 (formerly known as 304L) 1.4401 (316) and 1.4404 (316L) Types 1.4301/1.4307 are the most commonly used standard austenitic stainless steels and contain 18-20 % chromium and 8-11 % nickel. BS EN 10346:2015 specifies requirements for continuously hot-dip coated products made of low carbon steels for cold forming, of steels for construction and of steels with high proof strength for cold forming coated with zinc (Z), zinc-iron alloy (ZF), zinc-aluminium-zinc alloy (ZF), zinc-iron alloy (ZF), aluminium alloy (ZA) or zinc-magnesium alloy (ZM) in thicknesses of 0,20 mm < t < 3,0 mm. Structural design of ferritic stainless steels. Individual manufacturers produce a wide range of cladding and roofing systems and provide comprehensive literature with fixing details and tables showing safe loads. As well as resulting in differences in dimensions (and thus section properties) between hot and cold rectangular dimensions, the choice of process affects residual stress in the section and this leads to a requirement in BS EN 1993-1-1[6] for different buckling curves. Technical delivery conditions. [top] Standard open sections British, European and International standards define dimensions for a wide variety of open sections, angles and channels. The figure shows the stand in a universal mill used to create open sections [top]Proprietary open sections [top]Asymmetric shallow floor beams The USFB system (Image courtesy of Kloeckner Metals UK Westok) Asymmetric steel beams are often used as part of a shallow floor system. A deep girder also provides a deep web whose area may be minimised by reducing its thickness to the minimum required to carry the applied shear. The letter refers to the group of stainless steel: austenitic (A), martensitic (C) or ferritic (F). To avoid the risk of bimetallic corrosion stainless steel bolts should always be used when connecting stainless steel members. The mechanical properties of strip steel used in construction are given in BS EN 10346[1] and summarized below. To change the shape of a material as strong as steel the rolls must exert forces measured in hundreds of tonnes, and must also draw the steel continuously through the rolls while reducing the thickness. Their key feature is a wider bottom than top flange, which enables the slab to sit on the upper surface of the bottom flange with adequate bearing, rather than the upper surface of the top flange as found with downstand beams. 0.2% proof strength (N/mm2) Min. Cross References:EN 606EN 10020:2000EN 10027:2EN 10049EN 10027:2EN 10143EN 10204:2004EN 10127:2EN 10169EN ISO 14713-1:2009EN ISO 14713-2:2009All current amendments available at time of purchase are included with the purchase of this document. Property class 70 fasteners are made from cold drawn bar. A number of asymmetric shallow floor Beams (USFB) from Kloeckner Metals UK Westok. For flat products, two horizontal rolls are set one above the other in an open housing. There are numerous proprietary fasteners for special applications, such as for blind fixing or for connecting parts without drilling holes, and fixings for attachment to concrete foundations or other structures. Close control of chemical composition is maintained to produce clean steels with consistent strength and toughness properties that meet all relevant national standards, as with all structural products, and state-of-the art levellers produce flat plates with controlled residual stress. Dimensions, BSI. Fasteners. For use in building construction plate will normally be welded into fabricated sections. For that reason the billets, blooms, beam blanks and slabs from the steelmaking process are shaped into basic products at carefully controlled elevated temperatures. [top]Stainless steel fasteners and fixings The requirements for chemical composition and mechanical properties of stainless steel fasteners are specified in BS EN ISO 3506[8]. Beam mills include stands with both horizontal and vertical rolls bearing on the workpiece. Cold, roll-forming steel purlins The amount of metallic coating applied to the steel varies depending upon the coating applied and the application. A standard range of duplex stainless steel sections are available from selected producers and stockists, and sizes outside of the standard range can be made by special order. The most common sections are illustrated right; the use of lips at free edges and indented profiles (such as shown in the middle example below) allow the use of thin elements that do not fail prematurely by local buckling. The sheets are separated by spacer rails and insulation. Kloeckner Metals UK Westok's USFBs are shallow and asymmetric Westok cellular beams, which are manufactured from standard rolled sections, and are available in increments of 1mm depth. [top]Fasteners and fixings The most commonly used fastener in steel construction is the familiar nut-and-bolt. Colorcoat [top]Stainless steel products Stainless steel is the name given to a family of corrosion and heat resistant steels containing a minimum of 10.5% chromium. (Note that the 'internal' width between flanges is constant for any serial size - it is determined by the rolls - and an increase in flange thickness results in a corresponding increase in depth.) The nominal sizes of 'angles' are given in BS EN 10056[3] and these sections are typically defined by a serial size comprising the leg length, either equal or unequal, and the leg thickness. BSI ↑ BS EN 10056-1:2017 Structural steel equal and unequal leg angles. Stainless steel bolts are also suitable for connecting galvanized steel and aluminium members. The floor slab in such systems may be in the form of a precast concrete slab or a composite slab with metal decking (either shallow or deep decking

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