This table only highlights the comparison of BS and BS EN on steel materials, which are relevant to plan approval.

Title of BS	BS	BS EN/other standards	Title of BS EN/other standards
Specification for	BS 4360: 1986	BS EN 10025: 1-5: 2004	Hot rolled products of structural steels
weldable structural	(Superseded,	(Current)	
steels	Withdrawn)		Part1: General technical delivery conditions
			Part 2: Technical delivery conditions for non-alloy structural steels
			Part 3: Technical delivery conditions for normalized/normalized
			rolled weldable fine grain structural steels
			Part 4: Technical delivery conditions for thermomechanical
			rolled weldable fine grain structural steels
			Part 5: Technical delivery conditions for structural steels with
			improved atmospheric corrosion resistance
		BS EN 10025-6 : 2004	Part 6: Technical delivery conditions for flat products of high
		+A1:2009	yield strength structural steels in the quenched and tempered condition
		BS EN 10210-1: 2006	Hot finished structural hollow sections of non-alloy and fine
		(Current)	grain structural steels
			Part 1: Technical delivery requirements
		BS EN 10164: 2004	Steel products with improved deformation properties

		perpendicular to the surface of the product – Technical delivery conditions
	BS EN 10219-1: 2006	Cold formed welded structural hollow sections of non-alloy and
		fine grain steels
		Part 1: Technical delivery requirements

Comparison of BS and BS EN for DT of steel materials

This table only highlights the comparison of BS and BS EN on Destructive Testing of steel materials, which are relevant to plan approval.

Title of BS	BS	BS EN/other standards	Title of BS EN/other standards
Method for tensile	BS 18:1987	BS EN 10002-1:2001	Tensile testing of metallic materials.
testing of metals	(Superseded,	(withdrawn)	Part 1: Method of test at ambient temperature
(including aerospace	Withdrawn)		
materials)		and	Metallic materials – Tensile testing at ambient temperature
		ISO 6892: 1998	Metallic materials – Tensile testing
		(withdrawn)	Part 1: Method of test at ambient temperature
		both standard are replaced	
		by	
		BS EN ISO 6892-1: 2009	
		(withdrawn)	
		replaced by	
		BS EN ISO 6892-1: 2016	Metallic materials – Tensile testing
		(Current)	Part 1: Method of test at room temperature (ISO 6892 -1: 2016)
Methods for notched	BS 131-2:1972	BS EN 10045-1: 1990	Charpy impact test on metallic materials.
bar tests.	(Superseded,	(Superseded, Withdrawn)	Part 1: Test method (V- and U-notches)
Part 2: The Charpy	Withdrawn)		
V-notch impact test on		Replaced by	
metals			
		BS EN ISO 148-1: 2010	Metallic materials – Charpy pendulum impact test. Part 1: Test
		(withdrawn)	method

		replaced by	
		BS EN ISO 148-1: 2016 (Current)	Metallic materials – Charpy pendulum impact test. Part 1: Test method (ISO148-1: 2016)
Method for Brinell	BS 240: 1986	BS EN ISO 6506: 1-3:	Metallic materials. Brinell hardness test.
hardness test and for	(Superseded,	2005	
verification of Brinell	Withdrawn)	(Revised, Withdrawn)	Part 1: Test method.
hardness testing		Replaced by	
machines			Part 2: Verification and calibration of testing machines
			Part 3: Calibration of reference blocks
		BS EN ISO 6506: 2014 Part 1 to 3	Metallic materials. Brinell hardness test.
		(Current)	Part 1: Test method.
			Part 2: Verification and calibration of testing machines
			Part 3: Calibration of reference blocks
Method for Vickers	BS 427:1990	BS EN ISO 6507: 1-3:	Metallic materials. Vickers hardness test.
hardness test and for	(Superseded,	2005	Part 1: Test method.
verification of Vickers	Withdrawn)	(Current)	
hardness testing			Part 2: Verification and calibration of testing machines
machines			
			Part 3: Calibration of reference blocks

Comparison of BS and BS EN for Dimensional Tolerances

This table only highlights the comparison of BS and BS EN on dimensional tolerances of steel products, which are relevant to plan approval.

Title of BS	BS	BS EN/other standards	Title of BS EN/other standards
Structural steel sections	BS 4-1: 2005		
Part 1: Specification for	(Current)		
hot rolled sections			
	-	BS EN 10024: 1995	Hot rolled taper flange I sections. Tolerances on shape and
		(Current)	dimensions.
Weldable structural	BS 4360:1990	BS EN 10029: 1991	Specification for tolerances on dimensions, shape and mass for
steels	(Superseded,	(Revised, Withdrawn)	hot rolled steel plates 3 mm thick or above
	Withdrawn)		
		BS EN 10029: 2010	Hot-rolled steel plates 3 mm thick or above. Tolerances on
		(Current)	dimensions and shape
Structural steel sections	BS 4-1: 1980	BS EN 10034: 1993	Structural Steel I and H sections. Tolerances on shape and
Part 1: Specification for	(Superseded,	(Current)	dimensions.
hot rolled sections	Withdrawn)	(Current)	difficusions.
not fored sections	Withdrawiij		
	-	BS EN 10055: 1996	Hot rolled steel equal flange tees with radiused root and toes.
		(Current)	Dimensions and tolerances on shape and dimensions.
Hot rolled structural	BS 4848-4:1972	BS EN 10056-1: 1999	Specification for structural steel equal and unequal angles. Part
steel sections	(Superseded,	(Current)	1: Dimensions.
Part 4: Equal and	Withdrawn)		
unequal angles			

		BS EN 10056-2: 1993 (Current)	Specification for structural steel equal and unequal angles. Part 2: Tolerances on shape and dimensions.
Hot rolled structural	BS 4848-2: 1991	BS EN 10210-2: 1997	
steel sections	(Superseded,	(withdrawn)	
Part 2: Specification for	Withdrawn)	Replaced by	
hot-finished hollow			
sections		BS EN 10210-2: 2006	Hot finished structural hollow sections of non-alloy and fine
		(current)	grain structural steels.
			Part 2: Tolerances, dimensions and sectional properties.
	-	BS EN 10279:2000 (Current)	Hot rolled steel channels. Tolerances on shape, dimension and mass.
Specification for	BS 6363:1983	BS EN 10219-2: 1997	Cold formed welded structural sections of non-alloy and fine
welded cold formed	(Superseded,	withdrawn)	grain steels.
steel structural hollow	Withdrawn)		Part 2: Tolerances, dimensions and sectional properties.
sections		Replaced by	
		BS EN 10219-2: 2006	
		(current)	

Comparison of BS and BS EN on Corrosion Protection

This table only highlights the comparison of BS and BS EN on Corrosion Protection of steel, which are relevant to plan approval.

Title of BS	BS	BS EN/other	Title of BS EN/other standards
		standards	
	-	BS EN ISO	Preparation of steel substrates before application of paints and
		11124-1:1997	related products. Specifications for metallic blast-cleaning
		(Current)	abrasives.
			Part 1: General introduction and classification.
	-	BS EN ISO	Preparation of steel substrates before application of paints and
		11124-2:1997	related products. Specifications for metallic blast-cleaning
		(Current)	abrasives.
			Part 2: Chilled iron.
Specification for chilled	BS 2451: 1963	BS EN ISO 11124-3:	Preparation of steel substrates before application of paints and
iron shot and grit	(Superseded,	1997	related products. Specifications for metallic blast-cleaning
	Withdrawn)	(Current)	abrasives.
			Part 3: High carbon cast-steel shot and grit.
		BS EN ISO 11124-4:	Preparation of steel substrates before application of paints and
		1997	related products. Specifications for metallic blast-cleaning
		(Current)	abrasives.
			Part 4: Low carbon cast-steel shot.
Specification for	BS 4921: 1973	BS 4921: 1988	Specification for sherardized coatings on iron and steel.
sheradized coatings on	(Withdrawn,	(Current)	

iron and steel articles	superseded)		
Specification for	BS 4652: 1971	BS 4652: 1995	Specification for zinc-rich priming paint (organic media)
metallic zinc-rich	(Withdrawn,	(Current)	
priming paint (organic	superseded)		
media)			
Specification for	BS 2569-1: 1964	BS EN 22063: 1994	Metallic and other inorganic coatings. Thermal spraying. Zinc,
sprayed metal coatings.	(Withdrawn,	(Superseded,	aluminium and their alloys.
Part 1: Protection of	superseded)	Withdrawn) replaced by	
iron and steel by			
aluminium and zinc		BS EN ISO 2063: 2005	Thermal spraying. Metallic and other inorganic coatings. Zinc,
against atmospheric		(Current)	aluminium and their alloys.
corrosion			
Specification for	BS 729 : 1971	BS EN ISO 1461: 1999	Hot-dip galvanized coatings on fabricated iron and steel articles.
hot-dip galvanized	(Superseded,	(Withdrawn)	Specifications and test methods.
coatings on iron and	Withdrawn)		
steel articles		BS EN ISO 1461: 2009	Hot-dip galvanized coatings on fabricated iron and steel articles.
		(Current)	Specifications and test methods. (ISO 1461: 2009)

Comparison of BS and BS EN for Welding consumables

This table only highlights the comparison of BS and BS EN on welding consumables, which are relevant to plan approval.

Title of BS	BS	BS EN/other standards	Title of BS EN/other standards
Covered carbon and	BS 639:1986	BS EN 499: 1995	Welding consumables- Covered electrodes for manual metal arc
carbon manganese steel	(Superseded,	(Superseded, Withdrawn)	welding of non-alloy and fine grain steels – Classification
electrodes for manual	Withdrawn)	Replaced by	
metal-arc welding			
		BS EN ISO 2560: 2005	
		(withdrawn)	
		replaced by	
		BS EN ISO 2560 : 2009	Welding consumables- Covered electrodes for manual metal arc
		(Current)	welding of non-alloy and fine grain steels – Classification
Filler rods and wires for	BS 2901-1: 1983	BS EN 440: 1995	Welding consumables- Wire electrodes and deposits for gas
gas-shielded arc	(Superseded,	(withdrawn)	shielded metal arc welding of non-alloy and fine grain steels –
welding.	Withdrawn)	Replaced by	Classification.
Part 1: Ferritic steels			
		BS EN ISO 14341: 2008	
		(Revised, Withdrawn)	
		BS EN ISO 14341: 2011	Welding consumables. Wire electrodes and weld deposits for gas
		(Current)	shielded metal arc welding of non alloy and fine grain steels.
			Classification
Specification for	BS 4165: 1984	BS EN 756: 2004	Welding consumables- Solid wires, solid wire-flux and tubular

electrode wires and	(Superseded,	(Superseded, Withdrawn)	cored electrode-flux combinations for submerged arc welding of
fluxes for the	Withdrawn)	Replaced by	non-alloy and fine grain steels - Classification
submerged arc welding			
of carbon steel and			
medium-tensile steel			
		BS EN ISO 14171: 2010	Welding consumables – Solid wire electrodes, tubular cored
		(withdrawn)	electrodes and electrode/flux combinations for submerged arc
		Replaced by	welding of non alloy and fine grain steels - Classification
		BS EN ISO 14171: 2016	Welding consumables – Solid wire electrodes, tubular cored
		(Current)	electrodes and electrode/flux combinations for submerged arc
			welding of non alloy and fine grain steels - Classification
			(ISO 14171 : 2016)
Specification for carbon	BS 7084: 1989	BS EN 758: 1997	Welding consumables- Tubular cored electrodes for metal arc
and carbon-manganese	(Revised, Withdrawn)	(Superseded, Withdrawn)	welding with and without a gas shield of non-alloy and fine grain
steel tubular cored		Replaced by	steels – Classification
welding electrodes			
		BS EN ISO 17632 : 2008	Welding consumables- Tubular cored electrodes for gas shielded
		(withdrawn)	and non-gas shielded metal arc welding of non-alloy and fine
		replaced by	grain steels – Classification"
		BS EN ISO 17632 : 2015	Welding consumables- Tubular cored electrodes for gas shielded
		(Current)	and non-gas shielded metal arc welding of non-alloy and fine
			grain steels - Classification"

Comparison of BS and BS EN for Welding Standard, Procedure, Coordination and Welder

This table only highlights the comparison of BS and BS EN on Welding Standard, Procedure, Coordination and Welder, which are relevant to plan approval.

Title of BS	BS	BS EN/other	Title of BS EN/other standards
		standards	
Specification for arc	BS 5135:1984	BS EN 1011-1:1998	Welding. Recommendations for welding of metallic materials.
welding of carbon and	(Superseded,	(Revised, Withdrawn)	General guidance for arc welding
carbon manganese	Withdrawn)	Replaced by	
steels			
		BS EN 1011-1: 2009	Welding. Recommendations for welding of metallic materials.
		(Current)	General guidance for arc welding
		BS EN 1011-2:2001	Welding. Recommendations for welding of metallic materials. Arc
		(Current)	welding of ferritic steels
Specification for	BS 4870-1:1981	BS EN ISO 15614-1:	Specification and qualification of welding procedures for metallic
approval testing of	(Superseded,	2004 (+ A1 : 2008 /	materials. Welding procedure test.
welding procedures.	Withdrawn)	+A2 : 2012)	Part 1: Arc and gas welding of steels and arc welding of nickel
Part 1: Fusion welding		(Current)	and nickel alloys
of steel.			
		BS EN ISO 15614-8:2002	Specification and qualification of welding procedures for metallic
		(withdrawn)	materials – welding procedure test
		replaced by	Part 8: Welding of tubes to tube-plate joints
		BS EN ISO 15614-8:2016	Specification and qualification of welding procedures for metallic
		(Current)	materials – welding procedure test
			Part 8: Welding of tubes to tube-plate joints
			(ISO 15614-8 : 2016)

Part 3: Are welding of tube to tube-plate joints in metallic materials	BS 4870-3:1985 (Superseded, Withdrawn)	BS EN 1418: 1998 (Superseded, Withdrawn) Replaced by	Welding personnel. Approval testing of welding operators for fusion welding and resistance weld setters for fully mechanized and automatic welding of metallic materials.
		BS EN ISO 14732 : 2013 (Current)	Welding personnel. Qualification testing of welding operators and weld setters for mechanized and automatic welding of metallic materials.
Part 4: Specification for automatic fusion welding of metallic materials, including welding operator approval	BS 4870-4:1988 (Superseded, Withdrawn)		
	-	BS EN 719: 1994 (Superseded, Withdrawn) Replaced by	Welding co-ordination. Tasks and responsibilities
		BS EN ISO 14731 : 2006 (Current)	Welding co-ordination. Tasks and responsibilities

	-	BS EN 729-2: 1995	Quality requirements for welding. Fusion welding of metallic
		(Superseded,	materials. Comprehensive quality requirements.
		Withdrawn)	
		Replaced by	
		BS EN ISO 3834-2:	Quality requirements for fusion welding of metallic materials.
		2005	Part 2: Comprehensive quality requirements.
		(Current)	
		,	
	-	BS EN 729-3: 1995	Quality requirements for welding. Fusion welding of metallic
		(Superseded,	materials.
		Withdrawn) replaced by	Part 3: Standard quality requirements.
		BS EN ISO	Quality requirements for fusion welding of metallic materials.
		3834-3:2005	Part 3: Standard quality requirements
		(Current)	
	-	BS EN 729-4:1995	Quality requirements for welding. Fusion welding of metallic
		(Superseded,	materials.
		Withdrawn) replaced by	Part 4: Elementary quality requirements.
		BS EN ISO	Quality requirements for fusion welding of metallic materials.
		3834-4:2005	Part 4: Elementary quality requirements
		(Current)	
		·	
Specification for	BS 4871-1:1982	BS EN 287-1:2004	Qualification test of welders. Fusion welding.
approval testing of	(Superseded,	(Superseded,	Part 1: Steels

welders to approved	Withdrawn)	Withdrawn)	
welding procedures.		Replaced by	
Fusion welding of steel			
		BS EN 287-1:2011	Qualification test of welders. Fusion welding.
		(Superseded,	Part 1: Steels
		Withdrawn at year	
		2013)	
		BS EN 287-1:2011	
		(Superseded,	
		Withdrawn at year	
		2013)	
		Replaced by	
		BS EN ISO 9606-1:	Qualification testing of welders Fusion welding.
		2013	Part 1: Steels
		(Current)	
Specification for	BS 4871-3:1985		
approval testing of	(Current)		
welders to approved			
welding procedures.			
Part 3: Arc welding of			
tube to tube-plate joints			
in metallic materials			
Specification for	BS 4872-1: 1982		
approval testing of	(Current)		
welders when welding			

procedure approval is		
not required		
Part 1: Fusion welding		
of steel		

Comparison of BS and BS EN for DT of welds

This table only highlights the comparison of BS and BS EN on Destructive Testing of welds, which are relevant to plan approval.

Title of BS	BS	BS EN/other standards	Title of BS EN/other standards
Methods of destructive	BS 709:1983	BS EN 875: 1995	Destructive tests on welds in metallic materials. Impact tests. Test
testing, fusion welded	(Superseded,	(Superseded,	specimen location, notch orientation and examination.
joints and weld metal in	Withdrawn)	Withdrawn)	
steel		Replaced by	
		BS EN ISO 9016: 2011 (Superseded, Withdrawn) Replaced by	Destructive tests on welds in metallic materials. Impact tests. Test specimen location, notch orientation and examination
		BS EN ISO 9016 : 2012 (Current)	Destructive tests on welds in metallic materials. Impact tests. Test specimen location, notch orientation and examination (ISO9016: 2012)
		BS EN 876: 1995 (Superseded, Withdrawn) Replaced by	Destructive tests on welds in metallic materials. Longitudinal tensile test on weld metal in fusion welded joints.
		BS EN ISO 5178: 2011 (Current)	Destructive tests on welds in metallic materials. Longitudinal tensile test on weld metal in fusion welded joints
		BS EN 895: 1995 (Superseded,	Destructive tests on welds in metallic materials. Transverse tensile test.

Withdrawn)	
Replaced by	
BS EN ISO 4136: 2011	Destructive tests on welds in metallic materials. Transverse tensile
(Superseded,	test
Withdrawn)	
Replaced by	
BS EN ISO 4136 : 2012	Destructive tests on welds in metallic materials. Transverse tensile
(Current)	test (ISO4136: 2012)
BS EN 910: 1996	Destructive tests on welds in metallic materials. Bend tests.
(Superseded,	Destructive tests on weids in metanic materials. Dend tests.
Withdrawn)	
,	
Replaced by	
BS EN ISO 5173: 2010	Destructive tests on welds in metallic materials - Bend tests.
+ A1 : 2011	
(Current)	
BS EN 1043-1: 1996	Destructive tests on welds in metallic materials. Hardness testing.
(Superseded,	Part 1: Hardness test on arc welded joints.
Withdrawn)	
Replaced by	
BS EN ISO 9015 –1:	Destructive tests on welds in metallic materials. Hardness testing.
2011	Part 1: Hardness test on arc welded joints.
(Current)	

BS EN 1320: 1997 (Superseded, Withdrawn) Replaced by	Destructive test on welds in metallic materials. Fracture tests.
	Destructive test on welds in metallic materials Fracture tests. (ISO 9017 : 2001)
	Destructive test on welds in metallic materials. Macroscopic and microscopic examination of welds
	Destructive test on welds in metallic materials Macroscopic and microscopic examination of welds

Comparison of BS and BS EN for NDT of welds

This table only highlights the comparison of BS and BS EN on Non-Destructive Testing of welds, which are relevant to plan approval.

Title of BS	BS	BS EN/other standards	Title of BS EN/other standards
Code of practice. Visual inspection of fusion welded joints.	BS 5289:1976 (Superseded, Withdrawn)	BS EN 970:1997 (Superseded, Withdrawn) Replaced by	Non-destructive examination of fusion welds – Visual examination
		BS EN ISO 17637:2011 (Current)	Non-destructive testing of welds. Visual testing of fusion-welded joints
Method for penetrant flaw detection.	BS 6443:1984 (Superseded, Withdrawn)	BS EN 571-1:1997 (Superseded, Withdrawn) Replaced by	Non-destructive testing – Penetrant testing Part 1: General principles
		BS EN ISO 3452-1 : 2013 (Current)	Non-destructive testing – Penetrant testing Part 1: General principles
Method for magnetic particle flaw detection	BS 6072:1981 (Current, Obsolescent, Superseded)	BS EN 1290:1998 (withdrawn) replaced by	Non-destructive examination of welds – Magnetic particle examination of welds
		BS EN ISO 17638 : 2009 (withdrawn)	Non-destructive testing of welds – Magnetic particle testing

		replaced by	
		BS EN ISO 17638 : 2016 (Current)	Non-destructive testing of welds – Magnetic particle testing (ISO 17638 : 2016)
			Non-destructive testing.
		(Withdrawn)	Magnetic particle testing. Part 1: General principles.
		Replaced by	
		BS EN ISO 9934-1 : 2015	Non-destructive testing.
		(Current)	Magnetic particle testing.
			Part 1: General Principles.
Method for ultrasonic	BS 3923-1:1986	BS EN 1714:1998	Non-destructive testing of welded joints – Ultrasonic testing of
examination of welds	(Superseded,	(Superseded,	welded joints
Part 1: Methods for	Withdrawn)	Withdrawn)	
manual examination of		Replaced by	
fusion welds in ferritic			
steels			
		BS EN ISO 17640:2010	Non-destructive testing of welds. Ultrasonic testing. Techniques,
		(Current)	testing levels, and assessment
Radiographic	BS 2600-1 & 2:1983	BS EN 1435:1997	Non-destructive examination of welds. Radiographic examination
examination of fusion	(Superseded,	(Superseded,	of welded joints.
welded butt joints in	Withdrawn)	Withdrawn)	

steel.	Replaced by	
Part 1: Methods for steel 2 mm up to and including 50 mm thick		Non-destructive testing of welds. Radiographic testing Part 1 : X and Gamma –ray techniques with film.
Part 2: Methods for steel over 50 mm up to and including 200 mm thick		

Comparison of BS and BS EN for Fastener, Nut and Washer

This table only highlights the comparison of overdue and new standards for Fastener, Nut and Washer, which are relevant to plan approval.

Title of BS	BS	BS EN/other standards	Title of BS EN/other standards
		BS EN ISO 4014: 2001 (Revised, Withdrawn) Replaced by	Hexagon head bolts. Product grades A and B
		BS EN ISO 4014: 2011 (Current)	Hexagon head bolts. Product grades A and B
		BS EN ISO 4016: 2001 (Revised, Withdrawn) Replaced by	Hexagon head bolts. Product grade C
		BS EN ISO 4016: 2011 (Current)	Hexagon head bolts. Product grade C
		BS EN ISO 4017: 2001 (Revised, Withdrawn) Replaced by	Hexagon head screws. Product grades A and B
		BS EN ISO 4017: 2011 (Revised, Withdrawn) Replaced by	Hexagon head screws. Product grades A and B
			Fasteners - Hexagon head screws. Product grades A and B(ISO 4017: 2014)

	BS EN ISO 4018: 2001	Hexagon head screws. Product grade C
	(Revised, Withdrawn)	
	Replaced by	
	BS EN ISO 4018: 2011	Hexagon head screws. Product grade C
	(Current)	

Comparison of BS and BS EN on Matching Bolt, Nut and Washer & HSFG Bolt

This table only highlights the comparison of BS and BS EN on Matching Bolt, Nut and Washer & HSFG Bolt

Grade	Title of BS	BS	BS EN/other	Title of BS EN/Other standards
			standard	
4.6	Specification for	Bolt	BS EN ISO	Hexagon head screws. Product grade C
	ISO metric black	BS 4190:2001	4018:2011	
	hexagon bolts,	(Withdrawn)	(Current)	Hexagon head bolts. Product grade C
	screws and nuts.	Replaced by		
	Metric units.	BS 4190 : 2014	BS EN ISO	Specification for holding down bolts
		(Current)	4016:2011	
			(Current)	
	Specification for	BS 7419:1991		
	holding down bolts	(Withdrawn)		
		Replaced by		
		BS 7419 : 2012		
		(Current)		
	Specification for	Nut	BS EN ISO	Hexagon nuts. Product grade C
	ISO metric black	BS 4190:2001	4034:2001	
	hexagon bolts,	(Grade 4)	(Superseded,	
	screws and nuts.	(Withdrawn)	Withdrawn)	
	Metric units	Replaced by	Replaced by	
		BS 4190 : 2014		
		(Current)	BS EN ISO 4034:	Hexagon regular nuts (style 1). Product grades C
			2012	
			(Current)	

	Specification for	Washer	BS EN ISO	Plain washers. Normal series. Product grade C
	metal washers for	BS 4320:1968	7091:2000	
	general engineering	(Current)	(Current)	
	purposes. Metric			
	series.			
8.8	Specification for	Bolt	BS EN ISO 4017:	Hexagon head screws. Product grades A and B
	ISO metric black	BS 4190:2001	2011	
	hexagon bolts,	(Withdrawn)	(Revised,	
	screws and nuts.	Replaced by	Withdrawn)	
			Replaced by	
		BS 4190 : 2014		
		(Current)	BS EN ISO 4017:	Fasteners - Hexagon head screws. Product grades A and
			2014	B(ISO 4017 : 2014)
			(Current)	
			BS EN ISO	Hexagon head bolts. Product grades A and B
			4014:2011	
			(Current)	
	Specification for	BS 7419:1991		
	holding down bolts	(Withdrawn)		
		Replaced by		
		BS 7419 : 2012		
		(Current)		

Specification for	Nut	BS EN ISO	Hexagon nuts, style 1. Product grades A and B
ISO metric black	BS 4190:2001)	4032:2001	
hexagon bolts,	(Grade 8)	(Superseded,	
screws and nuts.	(Withdrawn)	Withdrawn)	
	Replaced by	Replaced by	
	BS 4190 : 2014	BS EN ISO 4032 :	Hexagon regular nuts (style 1). Product grades A and B
	(Current)	2012	
		(Current)	
Specification for	Washer	BS EN ISO	Plain washers. Normal series. Product grade C
metal washers for	BS 4320:1968	7091:2000	Train washers. Normal series. Product grade C
general engineering		(Current)	
purposes. Metric			
series.			

10.9	Specification for	Bolt	BS EN ISO	Hexagon head screws. Product grades A and B
	ISO metric black	BS 4190:2001	4017:2011	
	hexagon bolts,	(Withdrawn)	(Revised,	
	screws and nuts.	Replaced by	Withdrawn)	
		BS 4190 : 2014 (Current)	Replaced by	
			BS EN ISO 4017:	Fasteners - Hexagon head screws. Product grades A and
			2014	B(ISO 4017 : 2014)
			(Current)	
			BS EN ISO	Hexagon head bolts. Product grades A and B
			4014:2011	
			(Current)	
	Specification for	Nut	BS EN ISO	Hexagon nuts, style 1. Product grades A and B
	ISO metric black	BS 4190:2001	4032:2001	
	hexagon bolts,	(Grade 10)	(Superseded,	
	screws and nuts.	(Withdrawn)	Withdrawn)	
		Replaced by	Replaced by	
		BS 4190 : 2014		
		(Current)	BS EN ISO 4032 :	Hexagon regular nuts (style 1). Product grades A and B
			2012	
			(Current)	
	Specification for	Washer	BS EN ISO	Plain washers. Normal series. Product grade C
	metal washers for	BS 4320:1968	7091:2000	
	general engineering	(Current)	(Current)	
	purposes. Metric			
	series.			

HSFG Bolt	Specification for	General grade	BS EN 14399-	High-strength structural bolting assemblies for preloading.
	high strength	BS 4395-1: 1969 ,	Part 1 to 6 :2005	
	friction grip bolts	(Withdrawn)	(Withdrawn)	
	and associated nuts		Replaced by	
	and washers for			
	structural		BS EN 14399 -	Part 1: General requirements
	engineering.		Part 1 to 6 : 2015	
	Part 1: General		(Current)	Part 2: Suitability test for preloading
	grade			
				Part 3: System HR. Hexagon bolt and nut assemblies
	Specification for the	BS 4604-1: 1970		
	use of high strength	(Withdrawn)		Part 4: System HV. Hexagon bolt and nut assemblies
	friction grip bolts in			
	structural steelwork.			Part 5: Plain washers
	Metric series.			
	Part 1: General			Part 6: Plain chamfered washers
	grade			
HSFG Bolt	Specification for	Higher grade	BS EN 14399-	High-strength structural bolting assemblies for preloading.
nor o bon	high strength	BS 4395-2: 1969	Part 1 to 6 :2005	The strength structural volting assembles for preforability.
	friction grip bolts	(Withdrawn)	(Withdrawn)	
	and associated nuts	(**************************************	Replaced by	
	and washers for			
	structural		BS EN 14399 -	Part 1: General requirements
	engineering.		Part 1 to 6 : 2015	11
	Part 2: Higher grade		(Current)	Part 2: Suitability test for preloading
	bolts and nuts and		, ,	, , , , , , , , , , , , , , , , , , , ,
	general grade			Part 3: System HR. Hexagon bolt and nut assemblies

washers	
	Part 4: System HV. Hexagon bolt and nut assemblies
Specification for the BS 4604-2: 1970	
use of high strength (Withdrawn)	Part 5: Plain washers
friction grip bolts in	
structural steelwork.	Part 6: Plain chamfered washers
Metric series.	
Part 2: Higher grade	
(parallel shank)	