

# What's New June 2017

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A full record of the content revisions can be obtained within the report that is produced when you run the update routine on your user specifications.

Detailed PDF guidance documents can be found by clicking on the 'Sustainability' or 'Technical Design Guides' icons in the 'Guidance' toolbar.

Unless stated otherwise, section or clause guidance is accessed via the right-hand window.

### Content Specific to BSRIA BG 56 Based Specifications

Section 1	Summary
Introduction	<p>Three pre-compiled (but unedited) specifications are included with this content update. They are located within your supplied 'Templates' folder. These can be used as editable templates for BG 56 based project specifications or saved as 'Master' specifications by using the 'Manage Specifications Manager' tool under the 'Administration Tools' tab.</p> <p>For further instructions on how to create 'Master' specifications, see the 'NES Help File' available under the 'Guidance tab'.</p>
Section 2	Details of New Content
NES Template Specifications	<p>The 'Templates' described above have varying levels of complexity (see below). We have aimed to include all the required M, E and PH sections from parts B8, C and D in each specification.</p> <p>Any unwanted sections can be removed and any additional ones added before commencing editing of these template specifications e.g. sections required from sections B1-B7, Part A and Part E.</p> <p>The three levels of specification complexity are described below:</p> <ul style="list-style-type: none"> <li>• Basic (could be used for a simple building e.g. a primary school)</li> <li>• Intermediate (could be used for a typical air conditioned office with some retail / residential)</li> <li>• Complex (could be used for a hospital or laboratory building)</li> </ul> <p>To access these supplied BG 56 based 'Templates':</p> <ul style="list-style-type: none"> <li>• Copy them into your 'Specifications' folder via your file explorer. For example, copy the required specification(s) from file location <a href="#">C:\Program Files (x86)\Trimble\NES\Templates\BG56</a> and paste into file location <a href="#">C:\Program Files (x86)\Trimble\NES\Specifications</a>.</li> <li>• Within your NES application go to the 'Open' option under the 'Specification Operations' tab, browse to, and then select either the 'Basic', 'Intermediate' or 'Complex' template specification.</li> <li>• Once opened the specifications can be edited as required.</li> </ul>

## Content Common to CAWS and BG 56 Based Specifications

Section 1	Summary
Detailed Technical Guidance	<p><b>New or enhanced existing guidance:</b></p> <ul style="list-style-type: none"> <li>• Combined heat and power guidance has been amended to clarify when alternative methods of specifying CHP plant should be used.</li> <li>• Guidance in regards to pumps amended to reflect BS EN 16480 for minimum required efficiency of water pumps, for compliance with Commission Regulation (EU) No 547/2012 on ecodesign requirements.</li> <li>• Guidance note added to clause guidance giving formula for calculating the limiting standing loss from a hot water storage tank and transitional provision, in accordance with Commission Regulation No 814/2013 in regards to ecodesign requirements for water heaters and hot water storage tanks.</li> </ul> <p style="text-align: right;"><i>See Section 2 for details</i></p>
Work Section Updates	<p><b>Key points:</b></p> <ul style="list-style-type: none"> <li>• Many miscellaneous changes to align self-contained specifications and reference clauses, with Sections/Parts updates.</li> <li>• Hot and cold water services clauses expanded to include detail on gas fired types of water heater and references to electric water heater standards and sampling / monitoring requirements.</li> <li>• Update of five combined heat and power systems clauses in line with current standards and legislation.</li> <li>• Creation of two new supplied schedules and update of five existing schedules.</li> <li>• Electric heating / trace heating sections rationalised to separate trace heating of surfaces and electric space heating.</li> <li>• Self-contained specification for electrical installation reviewed and updated in line with current standards and legislation.</li> <li>• Clauses covering steel pipework revised and re-arranged for clarity.</li> <li>• Ductwork clauses enhanced with detailed requirements for external ductwork and their supports.</li> <li>• LV switchgear and distribution boards reference clauses reviewed and updated with current British Standards.</li> <li>• Contactors and starters / luminaires and lamps reference clauses reviewed and updated with current British Standards.</li> </ul> <p style="text-align: right;"><i>See Section 2 for further details and Section 3 for details of schedules</i></p>
Standards and Regulations Updates (only significant standards listed here)	<p><b>Some significant documents covered by the update include:</b></p> <ul style="list-style-type: none"> <li>• ENA Engineering Recommendation G59 and Engineering Recommendation G83, with removal of reference to G75</li> <li>• BSRIA Guide BG 62/2015 – Heat Interface Units</li> <li>• BSRIA Guide BTS2/2105 – Test Method for Heat Interface Units</li> <li>• CIBSE / Combined Heat and Power Association (CHPA) CP1: Heat Networks: Code of Practice for the UK</li> </ul> <p><b>Some significant standards covered by the update include:</b></p> <ul style="list-style-type: none"> <li>• BS 9999 and BS 9991 reference fire safety in the design, management and use of buildings</li> <li>• BS EN 16480 reference minimum required efficiency of water pumps for compliance with EC Ecodesign Regulations</li> <li>• PD 855468:2015 / BS 8558 reference flushing and disinfection and BS 8554 for sampling and monitoring of hot and cold water services</li> </ul> <p style="text-align: right;"><i>See Section 4 for details of all changes to British Standards</i></p>

## Content Common to CAWS and BG 56 Based Specifications

### Section 2 Details of Work Section Updates & Audits

Refer to separate 'CAWS - BG 56 NES Master Content Reference Document' for details of the corresponding BG 56 part/section references to the following CAWS sections.

#### Software Used in Building Services Plant – A13 and A64

A13:290.00 and A64:710.170 updated and enhanced to comply with current British Standards.

#### Packaged Plant Rooms – N30

Options to design / build container / frame to Eurocodes 1 & 3 added to clause 300.015.

#### Incineration Plant – R33

Legislation and standards updated in various clauses.

#### Hot and Cold Water Services generally and monitoring, sampling and flushing – S10, S11, S12, B20, Y23 and Y25

- ENA Engineering Recommendation G59 and Engineering Recommendation G83, with removal of reference to G75
- The following clauses are enhanced to include more detail on gas fired types of water heater and standards have been added for electric types
  - S11:300.020 and 300.030.
  - S12:200.030 and 200.040.
  - B20:300.205 and 300.206.
- Generally the term "sterilisation" has been changed to "disinfection" to align with terminology in the British Standards.
- Reference to BS 8558 and PD 855468 in regards to flushing and disinfection added to clauses 1300.102, 1300.103 and 1300.104.
- Reference to BS EN 806-4, BS 8558 and PD 855468 in regards to flushing and disinfection; and reference to BS 8554 for sampling and monitoring of hot and cold water services added to clauses S10:310.005, S11:310.005 and S12:700.010.
- In S12, PD 855468 added to clauses 900.020, 900.030 and 900.040.
- Reference to Building Regulations Approved Document G3 / BS EN 12879 added to 100.020 in regards to unvented hot water storage systems and same reference added to clause Y23.1010.
- Reference to HTM04-01 supplement D08 for TMV's in healthcare premises added to 300.050 (S11) and 200.106 (S12).
- Part 2 clause 225.070 on monitoring and sampling updated to clarify between closed systems and hot and cold water systems; and new clause Y25.2070E added for sampling of hot and cold water services referring to BS 8554.
- Part 2 clause 225.090 on flushing amended to clarify between closed systems and hot and cold water systems and new clause Y25.3010C added for flushing services supplying water for domestic use.
- Minor modifications to Z Part 2 clause 225.120 and clause title changed to "Disinfection".
- Y25.2070# expanded; "Closed Systems" added to title of 2070B and "Cooling" added to title of 2070D.
- PD 855468 added to Y25.3040, 3050 and 3060 and clause titles changed for clarity.
- Y25 flushing clauses 3010#, 3010A, 3010B amended to clarify types of system.
- Reference to water services sampling / disinfection results added to A37:150.000 and A64:810.070 on O&M manuals.

#### Borehole Water – S16

British Standard numbers added to Eurocode 7 for ground investigations.

## Content Common to CAWS and BG 56 Based Specifications

### Section 2 Details of Work Section Updates & Audits

#### Water Reclamation System – S17

Units for sizing UV treatment plant and link to schedule of UV disinfection units added in 310.032.

#### Compressed Air – S30 and S31

- Clause 320.150 added to S31 on safety requirements and clause 320.040 to S30.
- S30:310.090 on heat recovery enhanced including type, components and duty.

#### Natural Gas – S32

Clause 310.055 enhanced with British Standards for various valve types / testing.

#### Medical / Laboratory Gas – S34

British Standard for medical grade copper tube added to 320.020.

#### Gas Firefighting – S70

Clause 310.112 expanded covering facilities for post discharge venting of protected enclosures.

#### Powder Firefighting – S72

- Parts 1 & 2 of BS EN 12416 added to 310.010 and references to URL / NFPA removed.
- Standards for propellant / powder amended in other clauses.

#### Combined Heat and Power Systems – T19

- Removed references to BS EN 60439-series in clause 310.100.
- Wording of clauses 300.007, 300.010, 300.040 and 310.100 amended to refer to most current version of ENA engineering recommendations for grid connection (G83 / G59) and ref to G75 removed.
- Clause specific guidance for 300.007 and 300.010 amended to clarify when these alternative methods of specifying CHP plant should be used (i.e. 300.007 for a performance specification for fully packaged plant and 300.010 for a detailed specification of each part of the system).
- Title of 300.004 changed to "Legislation for Electrical Safety" from "Low Voltage Directive / Electrical Safety Regulations" and additional content added to clause.

#### Boilers and Heat Pumps – T10 and T14

- New clause 300.008 added to T14 for refrigerant piping system.
- Various British Standard updates.

#### LTHW Heating – T31 and T32

Reference to BS EN 1264 (underfloor heating) added to 310.150 / 300.050 (T32) and facility to define demarcation of design responsibilities added to these clauses.

#### Local Heating Units – T42

British Standards amended / added to 300.050 on ventilation.

#### Central Refrigeration Plant – T60 / T69

Clauses for pressurisation plant rewritten to align with clauses for same product in T10 (boilers).

#### Natural Ventilation Clauses – U10

British Standards for calculations for determination of air flow rates and associated energy losses added to 300.005 and 300.010.

#### Kitchen Ventilation – U12

- Section updated to remove out of date detailed references to DW 172.
- 310.010 enhanced to allow make up air volume / pressure drop to be included.

## Content Common to CAWS and BG 56 Based Specifications

### Section 2 Details of Work Section Updates & Audits

#### Smoke and Heat Control – U14

- Title of work section changed from “Smoke Extract” / “Smoke Control” to better align with terminology in BS 9999, BS 9991 and other key standards.
- Standards added / amended in clauses: 300.015, 310.020, 310.030, 310.040 and 320.010 (relevant parts of BS 7346 / BS EN 12101 and BS 8159).
- Additional content added to clauses 100.010 and 100.011.
- Text added to 100.000, 300.015 and new clause 310.005 added covering relevant design standards/codes of practice (BS 9999, BS EN 13779, and BS EN 15423).
- Clause 300.015 enhanced with addition of BS 7346-5 for time-dependent design fires.
- New “General” clause 310.005 listing relevant standards.
- Clauses amended for system components (fans and natural ventilators) and relevant parts of BS EN 12101 added.

#### Fume Cupboards, Safety Cabinets, Fume Extract Systems and Dust Extract – U15, U16 and U20

- Section titles amended.
- Clauses for factory / type testing added in U15 and U16.
- Clause 310.005 added to U16 for installation / commissioning, referring to HSE HSG258 on LEV systems. Reference to HSG 258 also added to clause 320.030 in U20.

#### Anaesthetic Gas Extract – U17

British Standards amended in various clauses.

#### Emergency and Standby Generators – V10

Removed references to BS EN 60439-series in clause 310.130.

#### LV Supply / Public Utility Supply – V12

Replaced BS EN 60439-5 with BS EN 61439-5 in clause 300.010.

#### Photovoltaic Systems – V13

Removed references to BS EN 60439-series in clause 310.050.

#### Wind Power Systems – V14

Removed references to BS EN 60439-series in clauses 310.015, 310.016 and 310.050.

#### Electric Heating / Trace Heating – V50, V51, Y24, B20, S12 and T32

- Section V50 title changed to cover only trace heating of surfaces etc. for de-icing or thermal storage; and electric underfloor heating clauses removed. Plus new schedule added.
- Section V51 title changed to cover all types of electric space heating including underfloor heating. Clauses covering electric water heating removed from this section and minor amendments made to clauses for heat emitters.
- Standards added to V51:300.010 and 310.050 for storage heaters.
- Clause 310.035 in V51 significantly enhanced and re-named as “Electric Underfloor Heating”.
- Y24 title changed to make it clear this section is for trace heating of piped services and vessels.
- Minor amendments to Z Part 2 clause 224.020 to include sprinkler pipework and Y reference clause 3010 enhanced to cover installation of trace heating in explosive atmospheres.
- Trace heating schedule name changed to “Trace Heating of Piped Services, Vessels and Associated Equipment”.
- Clauses for trace heating in B20, S12 and T32 self-contained specifications amended to reflect changes in Y24.

## Content Common to CAWS and BG 56 Based Specifications

### Section 2 Details of Work Section Updates & Audits

#### Electrical Installation (Self-Contained Specification) – V90

- Section has been reviewed in accordance with relevant standards and guidance.
- Schedule LV-Circuit Breakers, for LV MCCBs and ACBs has been referenced in clause 200.210.
- BS 7671 (IET Wiring Regulations) requirements for wiring systems in escape routes has been reflected in Clauses 300.020, 300.040, 300.152, 300.180 and 300.190.
- Clauses 300.082 "Busbar Trunking" and 300.083 "Tap-Off Units" have been combined into a single clause 300.082 and the current standards acknowledged. Clause 300.083 has been deleted accordingly.
- Clauses 300.084 "Trunking with LV Sockets" and Clause 300.085 "Powertrack Systems" have been combined into a single clause 300.084, and the current standards acknowledged. Clause 300.085 has been deleted accordingly.
- Requirements for UK socket outlets with integral USB charging facility are included in Clause 500.170. These have been available for some time and based on the 2015 Draft for Public Comment BS 1363-2 (15/30297234 DC), it is anticipated that they will be fully incorporated into BS 1363-2 in the near future.
- Clauses 800.041 and 800.042 covering HBES and BACS for automation, control and monitoring have been combined. Clause 800.042 has been deleted accordingly.

#### Earthing and Bonding – W51 / W56

- References to MEIGaN Regulations removed from 100.011, 300.011, and 320.200.
- Additional HSE guides INDG 372 and HSG230 added to 310.140.
- HSG230 also added to W56:310.140.

#### Travelling Cradles – X22

Removed references to BS EN 60439-series in clauses 320.080, 320.090 and 320.100.

#### Steel Pipework – Y10, Z Part 2, T32 and T69

- Part 2 clause 210.020 generally revised / re-arranged for clarity for welded and seamless steel tubes and associated fittings for pipework up to and greater than 150mm, ref BS EN 10225 and BS EN 10217/ BS EN 10216.
- Reference to BS EN 10240 for galvanising added to the appropriate Y10.2010 series of clauses.
- Y10.2020 '#/A' removed.
- Y10.2030# removed and replaced with 2030.
- Y10.2050# / 2055# removed and replaced with 2050 & 2055.
- Y10.2060 A & B amended to allow for specifying butt welding fittings for either standard applications of application that need to comply with the Pressure Equipment Regulations (BS EN 10253-2).
- T32:500.040 and 500.050 amended in line with Y10 / Part 2 clause 210.020.
- T69:300.040 and 300.050 amended in line with Y10 / Part 2 clause 210.020.

#### Expansion Joints – Y11, T32 and T69

- BS ISO 15348 replaced with BS EN 14917 for expansion bellows in clauses T32:600.050 and T69:400.040 and Y11 2630 series of clauses.
- New schedule for expansion bellows / flexible hose compensators added to above clauses and 211.260.

#### Pumps – Y20, T32 and T69

Clauses Y20.1020, T32:200.080, T69:200.060 and guidance amended to reflect BS EN 16480 for minimum required efficiency of water pumps (for compliance with EC Ecodesign Regulations).



## Content Common to CAWS and BG 56 Based Specifications

### Section 2 Details of Work Section Updates & Audits

#### Heat Interface Units (HIU's) – Y22, T32 and B20

- Reference to the following documents added to Y22.2045, T32:200.025 and B20:400.217
  - BSRIA Guide BG 62/2015 – Heat Interface Units
  - BSRIA Guide BTS2/2105 – Test Method for Heat Interface Units
  - CIBSE / Combined Heat and Power Association (CHPA) CP1: Heat Networks: Code of Practice for the UK
- Reference to BSRIA Guide BTS2/2105 added to Z Part 2 clause 222.045

#### Hot Water Storage – Y23, Part 2 and S12

- General update of Part 2 clauses and U19 / U39 clauses to remove specific detail references to out of date version of DW/144.
- Reference to EU Regulation 814/2013 regarding ecodesign requirements for water storage vessels added to clause 223.010 and clause S12 200.001 enhanced.
- Guidance note added to above clauses giving formula for calculating the limiting standing loss from a hot water storage tank and transitional provision (taken from Regulation 814/2013).

#### Ductwork – Y30, Part 2, U19 and U39

- General update of Part 2 clauses and U19 / U39 clauses to remove specific detail references to out of date version of DW/144.
- Clause Y30.2040# deleted.
- Reference to pre-insulated ductwork / Y30.2100M removed from 230.060 (plastic ductwork); and new clause 230.062 for non-metallic ducts made from insulation duct boards added with reference to Y30.2100M.
- Detailed requirements for external ductwork added to 230.180 and reference clause Y30.4040 for external ductwork supports enhanced, including reference to BESA DW/144.
- New clause U19:300.052 for external ductwork added.
- New clause U39:500.052 for external ductwork added.

#### Air Handling Units – Y40

- Removed references to BS EN 60439-series in clause 310.100.
- New Y reference clause Y40.2040B added for permanent access platforms for double deck AHU's. New clause referenced in Part 2: 244.040 and permanent access platform option also added to Y40.2040#.
- Options for lighting in AHU's added to 240.130 (accessories)

#### Air Filters – Y42

- Option for terminal ceiling housings / modules for combined high efficiency filter / ceiling diffusers for clean rooms added to 242.020.
- Correct naming of classes of high efficiency filters (i.e. EPA, HEPA & ULPA) added to 2070#.
- Clause 2070B title corrected to include low penetration and filter casing changed.
- EPA type of filter added to 3030#, 3030A and 3030B.

#### Humidifiers and Dehumidifiers – Y44

New Y reference clause 4080 added for lighting for maintenance purposes of units installed in AHU's / duct mounted units. New clause referenced in 244.040.

#### Silencers / acoustic treatment – Y45

Clause 245.010 expanded to reference IGEM/UP/10 for fan diluted systems, DW/172 for kitchen extract systems and addition of text for where a "Melinex" lining is required on units.

## Content Common to CAWS and BG 56 Based Specifications

### Section 2 Details of Work Section Updates & Audits

#### Grilles / Diffusers / Louvres – Y46

- Reference to new BSRIA BG65/2016 for Floor Plenum Air tightness Guidance and Testing Methodology, added to supplied schedule Grilles and Diffusers.

#### Testing and Commissioning of Mechanical Services – Y51

- Clause 251.030 on static testing enhanced with reference to new Y reference clause Y51.2015 on pressure and leakage testing - builder's work shafts, voids, enclosures and floor plenums, in which BG 65/2016 is referenced.
- New Y reference clause 3052 added for commissioning of steam systems (link added in 251.040).

#### Cables and Conduit – Y60

- Reference to IET Guidance Note 1 on Selection and Erection amended in the following clauses
  - Y60 - 3020, 3030, 5030# and 5030A.

#### Cables and Wiring – Y61

British Standards updated in the 3010 series of clauses on cable glands.

#### LV Switchgear and Distribution Boards – Y71

- New standard included for meters BS EN 62053-24 in clauses 2150# and 2150A.
- Replaced all references to BS EN 60439-series with references to BS EN 61439-series in clauses 2010#, 2020#, 2020a, 2020b, 2040#, 2260#, 2270#.
- Forms of separation in clauses 2020#, 2020a and 2020b aligned with BS EN 61439-2.
- Removed BS 7264 (superseded/withdrawn) from clauses 2260# and 2270#.
- Replaced withdrawn DIN rail standards BS EN 50022 and BS EN 50023 with current standard BS EN 60715 in clause 2020#.

#### Contactors and Starters – Y72

- Removed references to BS EN 60439-series in clauses 2010#, 2020# and 2020a
- Replaced withdrawn DIN rail standards BS EN 50022 and BS EN 50023 with current standard BS EN 60715 in clauses 2020a, 2020#, 2070a and 2007#.

#### Luminaires and Lamps – Y73

Added options for lighting strings and rope lights (BS EN 60598-2-20 and BS EN 60598-2-21) in clause 2010#.

#### Accessories for Electrical Services – Y74

Clauses 2190# and 2190A for shaver points updated with latest British Standards.

#### Earthing and Bonding - Y80

BS EN 62561 parts 4 & 5 for lightning protection system conductor fasteners / earth electrode inspection housings added to the 2030 series / 2070 series of clauses respectively.

#### Identification Electrical – Y82

- Removed references to BS EN 60439-series in clause 310.100 and Y reference clauses 2130# and 2130A.
- Clause 2070A deleted and replaced with new clause 2070 for safety signs.
- Clauses 2010# and 2010A amended to include additional requirements / reference to specific parts of BS 7671.



## Content Common to CAWS and BG 56 Based Specifications

### Section 3 Schedules

Below is a summary of the updates to schedules in Excel that can be activated by clicking on the links from NES clauses.

Some guidance has been incorporated into many of the schedules in the form of "comments" that are displayed when hovering over certain cells.

These supplied NES schedules:

- Are independent of classification
- Have been updated to a common formatting theme
- Are orientated as landscape for ease of publishing

For a complete listing and print preview of all NES schedules refer to document NES Building Services Schedules, located on the "Guidance" tool bar, under "Other Resources".

The list below covers significant amendments / changes to existing schedules and new schedules.

#### Types

U – Existing schedule that has been significantly updated

N – New schedule

Section Reference		Schedule Name	Type	Details
CAWS	BG 56			
S20	C1.2.80	Ultraviolet Disinfection Units	U	General update.
V50	C1.4.160	Surface Trace Heating	N	To align with revised / renamed work section V50 which was previously called Electric Underfloor Heating (which is now incorporated within V51). Use for roof or gutter de-icing, snow melting / de-icing of driveways, ramps or entrances to buildings.
Y22 Part 2	C1.4.120	Heat Interface Units	U	General update to add sample text referencing BSRIA test standard BTS2/2015, BSRIA guide BG 62/2015 and CIBSE / CHPA CP1 for heat networks.
Y30 Z Part 2	C1.4.510	Ductwork	U	General update, note added referencing external ductwork.
Y46 Z Part 2	C1.4.520	Grilles and Diffusers	U	General update, note added referring to BSRIA BG 65/2016 for pressure testing floor plenums.
Y11 Z Part 2	C1.8.20	Expansion Bellows and Flexible Hose Compensators	N	To allow bellows to be specified in accordance with BS EN 14917.
Y24 Z Part 2	C1.8.50	Trace Heating of Piped Services, Vessels and Associated Equipment	U	Schedule re-named to match revised section title – now has two sheets in the workbook covering pipework trace heating and vessels and equipment trace heating.

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Section 4 Detail Changes to Reference Documents

Work Section		Reference Document - Current	Status of Current Reference	Reference Document - New
CAWS	BG 56			
A13, A37, A64, B20, V90, V91, V92, W10, W11, W30, W51, W56, W60, W69, W70, Y82	A1.4, A3.8, C2.3.10, C2.3.40, C2.3.20, C2.1.10, C2.1.11, C1.7.10, C2.3.30, D2.7.20	BS 6701:2010 Telecommunications equipment and telecommunications cabling. Specification for installation, operation and maintenance	Withdrawn, Superseded	BS 6701:2016 Telecommunications equipment and telecommunications cabling. Specification for installation, operation and maintenance
A31, A64	A3.2	BS ISO 29481-1:2010 Building information modelling. Information delivery manual. Methodology and format	Withdrawn, Superseded	BS ISO 29481-1:2016 Building information models. Information delivery manual. Methodology and format
A64, B20, V21, V40, V90	C2.2.10, C2.2.20	BS 5266-1:2011 Emergency lighting. Code of practice for the emergency escape lighting of premises	Withdrawn, Superseded	BS 5266-1:2016 Emergency lighting. Code of practice for the emergency lighting of premises
A64, B20, S61, S62, S63, U13, U14, U19, U39, V13, V14, X10, X19, Y30, Y42, Z Part 2	C1.6.20, C1.6.30, C1.6.40, C1.4.210, C1.4.220, C2.1.40, C2.1.50, C3.1.10, D1.4.510, D1.4.470, C1.4.510	BS 9999:2008 Code of practice for fire safety in the design, management and use of buildings	Withdrawn, Superseded	BS 9999:2017 Fire safety in the design, management and use of buildings. Code of practice
B20, N11, R30, V90	C5.20, C1.1.80	BS EN 60335-2-3:2002+A11:2010 Household and similar electrical appliances. Safety. Particular requirements for electric irons	Withdrawn, Superseded	BS EN 60335-2-3:2016 Household and similar electrical appliances. Safety. Particular requirements for electric irons
B20, N11, R30, V90	C5.20, C1.1.80		Amendment 12	BS EN 60335-2-14:2006+A12:2016 Household and similar electrical appliances. Safety. Particular requirements for kitchen machines

Content Common to CAWS and BG 56 Based Specifications

Section 4 Detail Changes to Reference Documents

Work Section		Reference Document - Current	Status of Current Reference	Reference Document - New
CAWS	BG 56			
B20, N11, N12, R30, V90	C5.20, C5.30, C1.1.80		Amendment 2	BS EN 60335-2-25:2012+A2:2016 Household and similar electrical appliances. Safety. Particular requirements for microwave ovens, including combination microwave ovens
B20, S11, S12, R30, V90	C1.2.20, C5.30, C1.1.80	BS EN 60335-2-35:2002+A2:2011 Household and similar electrical appliances. Safety. Particular requirements for instantaneous water heaters	Replaced but remains current	BS EN 60335-2-35:2016 Household and similar electrical appliances. Safety. Particular requirements for instantaneous water heaters
B20, N12, R30, V90	C5.30, C1.1.80		Amendment 12	BS EN 60335-2-37:2002+A12:2016 Household and similar electrical appliances. Safety. Particular requirements for commercial electric deep fat fryers
B20, N12, R30, V90	C5.30, C1.1.80		Amendment 12	BS EN 60335-2-58:2005+A12:2016 Household and similar electrical appliances. Safety. Particular requirements for commercial electric dishwashing machines
B20, N12, R30, V90	C5.30, C1.1.80		Amendment 1	BS EN 60335-2-89:2010+A1:2016 Household and similar electrical appliances. Safety. Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor
B20, N11, N12, T14, T50, T60, T62, T69,	C5.20, C5.30, C1.4.70, C1.4.440,	BS EN 378-1:2008+A2:2012 Refrigerating systems and heat pumps. Safety	Withdrawn, Superseded	BS EN 378-1:2016 Refrigerating systems and heat pumps. Safety and environmental

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Section 4 Detail Changes to Reference Documents

Work Section		Reference Document - Current	Status of Current Reference	Reference Document - New
CAWS	BG 56			
T70, U39, U43, U50, U60, U70	C1.4.380, C1.4.400, C1.4.390, C1.4.340, C1.4.350, C1.4.430	and environmental requirements. Basic requirements, definitions, classification and selection criteria		requirements. Basic requirements, definitions, classification and selection criteria
B20, N12, V90, V91, V92, W14, X22, Y60, Y74	C5.30, C2.3.60, C3.2.30, D2.6.10, D2.6.70	BS 1363-2:1995+A4:2012 13 A plugs, socket-outlets, adaptors and connection units. Specification for 13 A switched and unswitched socket-outlets	Withdrawn, Superseded	BS 1363-2:2016 13 A plugs, socket-outlets, adaptors and connection units. Specification for 13 A switched and unswitched socket-outlets
B20, N11, N12, T14, T50, T60, T62, T69, T70, U39, U43, U50, U60, U70	C5.20, C5.30, C1.4.70, C1.4.440, C1.4.380, C1.4.400, C1.4.390, C1.4.340, C1.4.350, C1.4.430	BS EN 378-2:2008+A2:2012 Refrigerating systems and heat pumps. Safety and environmental requirements. Design, construction, testing, marking and documentation	Withdrawn, Superseded	BS EN 378-2:2016 Refrigerating systems and heat pumps. Safety and environmental requirements. Design, construction, testing, marking and documentation
B20, N11, N12, T14, T50, T60, T62, T69, T70, U39, U43, U50, U60, U70	C5.20, C5.30, C1.4.70, C1.4.440, C1.4.380, C1.4.400, C1.4.390, C1.4.340, C1.4.350, C1.4.430	BS EN 378-3:2008+A1:2012 Refrigerating systems and heat pumps. Safety and environmental requirements. Installation site and personal protection	Withdrawn, Superseded	BS EN 378-3:2016 Refrigerating systems and heat pumps. Safety and environmental requirements. Installation site and personal protection
B20, N11, N12, T14, T50, T60, T62, T69, T70, U39, U43, U50, U60, U70	C5.20, C5.30, C1.4.70, C1.4.440, C1.4.380, C1.4.400, C1.4.390, C1.4.340, C1.4.350, C1.4.430	BS EN 378-4:2008+A1:2012 Refrigerating systems and heat pumps. Safety and environmental requirements. Operation, maintenance, repair and recovery	Withdrawn, Superseded	BS EN 378-4:2016 Refrigerating systems and heat pumps. Safety and environmental requirements. Operation, maintenance, repair and recovery
B20, N11, N12, R30, V90	C5.20, C5.30, C1.1.80		Amendment 2	BS EN 60335-2-102:2006+A2:2016 Household and similar electrical appliances.

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Section 4 Detail Changes to Reference Documents

Work Section		Reference Document - Current	Status of Current Reference	Reference Document - New
CAWS	BG 56			
				Safety. Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections
B20, S10, S11, S12, Y25	D1.2.10, D1.2.20, D1.10.10		New Addition	PD 855468:2015 Guide to the flushing and disinfection of services supplying water for domestic use within buildings and their curtilages
B20, S11, S12, V90	C1.2.20	BS EN 50193-1:2013 Electric instantaneous water heaters. General requirements	Withdrawn, Superseded	BS EN 50193-1:2016 Electric instantaneous water heaters. Methods for measuring the Performance. General requirements
B20, S11, S12, Y23	C1.2.20, D1.2.22	BS EN 12897:2006 Water supply. Specification for indirectly heated unvented (closed) storage water heaters	Withdrawn, Superseded	BS EN 12897:2016 Water supply. Specification for indirectly heated unvented (closed) storage water heaters
B20, S11, S12, V90	C1.2.20		New Addition	BS EN 50193-2-1:2016 Electric instantaneous water heaters. Methods for measuring the performance. Multifunctional electric instantaneous water heaters
B20, S11, S12, V90	C1.2.20		New Addition	BS EN 50193-2-2:2016 Electric instantaneous water heaters. Performance requirements. Single point of use electric instantaneous showers. Efficiency
B20, S12, T10, T32,	C1.4.30		Amendment 1	BS EN 15502-2-1:2012+A1:2016 Gas-fired central heating boilers. Specific standard for type C appliances and type B2, B3 and B5 appliances of a nominal

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Section 4 Detail Changes to Reference Documents

Work Section		Reference Document - Current	Status of Current Reference	Reference Document - New
CAWS	BG 56			
				heat input not exceeding 1 000 kW
B20, S30, S31, T10, T11, T16, T32, Y11, Y23, Z Part 2	D1.5.10, C1.5.20, C1.4.30, C1.4.40, C1.4.90, D1.8.20, D1.2.22		Amendment 1	BS EN ISO 4126-1:2013+A1:2016 Safety devices for protection against excessive pressure. Safety valves
B20, S72, V90, V92	C1.6.90, C2.5.10	BS EN 54-5:2001 Fire detection and fire alarm systems. Heat detectors. Point detectors	Withdrawn, Superseded	BS EN 54-5:2017 Fire detection and fire alarm systems. Heat detectors. Point heat detectors
B20, S72, V90, V92	C1.6.90	BS EN 54-13:2005 Fire detection and fire alarm systems. Compatibility assessment of system components	Withdrawn, Superseded	BS EN 54-13:2017 Fire detection and fire alarm systems. Compatibility and connectability assessment of system components
B20, S72, V90, V92	C1.6.90		New Addition	BS EN 54-28:2016 Fire detection and fire alarm system. Non-resettable line-type heat detectors
B20, S72, V90, V92	C1.6.90		Amendment 1	BS EN 54-31:2014+A1:2016
B20, T14, T62, U39, U60	C1.4.70, C1.4.400, C1.4.350,	BS EN 16147:2011 Heat pumps with electrically driven compressors. Testing and requirements for marking of domestic hot water units	Withdrawn, Superseded	BS EN 16147:2017 Heat pumps with electrically driven compressors. Testing, performance rating and requirements for marking of domestic hot water units
B20, V90, X22, Y74	C3.2.30, D2.6.70		New Addition	BS 4573:1970+A5:2016 Specification for 2-pin reversible plugs and shaver socket-outlets
B20, V90, V91, V92, Y61	D2.6.20	BS 5467:1997+A3:2008 Electric cables. Thermosetting insulated, armoured cables for voltages of 600/1000 V and 1900/3300 V	Withdrawn, Superseded	BS 5467:2016 Electric cables. Thermosetting insulated, armoured cables of rated voltages of 600/1 000 V and 1 900/3 300 V for fixed installations. Specification



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Section 4 Detail Changes to Reference Documents

Work Section		Reference Document - Current	Status of Current Reference	Reference Document - New
CAWS	BG 56			
B20, V90, V91, V92, X22, Y61	C3.2.30, D2.6.20	BS 6724:1997+A3:2008 Electric cables. Thermosetting insulated, armoured cables for voltages of 600/1000 V and 1900/3300 V, having low emission of smoke and corrosive gases when affected by fire	Withdrawn, Superseded	BS 6724:2016 Electric cables. Thermosetting insulated, armoured cables of rated voltages of 600/1 000 V and 1 900/3 300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire. Specification
P30, R12, R21, S15, S16	C1.1.30, C1.1.70, C1.2.50, C1.2.60		Amendment 1	BS EN 206:2013+A1:2016 Concrete. Specification, performance, production and conformity
R30, T40, T42, T70, U19, U20, U39, U40, U43, U50, U60, U70, Y42, Z Part 2	C1.1.80, C1.4.140, C1.4.150, C1.4.390, C1.4.260, C1.4.320, C1.4.340, C1.4.350, C1.4.430, D1.4.470, C1.4.470, C1.4.450	BS EN 779:2012 Particulate air filters for general ventilation. Determination of the filtration performance	Superseded, Current	BS EN ISO 16890-1:2016 Air filters for general ventilation. Technical specifications, requirements and classification system based upon particulate matter efficiency (ePM)
				BS EN ISO 16890-3:2016 Air filters for general ventilation. Determination of the gravimetric efficiency and the air flow resistance versus the mass of test dust captured
				BS EN ISO 16890-4:2016 Air filters for general ventilation. Conditioning method to determine the minimum fractional test efficiency
R33	C1.1.110		New Addition	BS EN 746-1:1997+A1:2009 Industrial thermoprocessing equipment. Common safety requirements for

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Section 4 Detail Changes to Reference Documents

Work Section		Reference Document - Current	Status of Current Reference	Reference Document - New
CAWS	BG 56			
				industrial thermoprocessing equipment
R33	C1.1.110		New Addition	BS EN 746-2:2010 Industrial thermoprocessing equipment. Safety requirements for combustion and fuel handling systems
R33	C1.1.110		New Addition	BS EN 746-3:1997+A1:2009 Industrial thermoprocessing equipment. Safety requirements for the generation and use of atmosphere gases
R33	C1.1.110		New Addition	BS EN 746-4:2000 Industrial thermoprocessing equipment. Particular safety requirements for hot dip galvanizing thermoprocessing equipment
R33	C1.1.110		New Addition	BS EN 746-5:2000 Industrial thermoprocessing equipment. Particular safety requirements for salt bath thermoprocessing equipment
R33	C1.1.110		New Addition	BS EN 746-8:2000 Industrial thermoprocessing equipment. Particular safety requirements for quenching equipment
S10, S11, S12, Y25	D1.2.10, D1.2.20, D1.10.10		New Addition	BS EN ISO 5667-1:2006 Water quality. Sampling. Guidance on the design of sampling programmes and sampling techniques
S11, S12	C1.2.20		New Addition	BS EN 50440:2015 Efficiency of domestic electrical storage water

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Section 4 Detail Changes to Reference Documents

Work Section		Reference Document - Current	Status of Current Reference	Reference Document - New
CAWS	BG 56			
				heaters and testing methods
S30, S33, S51, S52, S53, T14, T16, T19, T33, T60, T61 T69, Z Part 2	C1.5.10, C1.3.20, C1.5.50, C1.5.60, C1.5.70, C1.4.70, C1.4.90, C1.4.100, D1.4.130, C1.4.380, C1.4.385, C1.4.120		Amendment 2	BS EN 13445-3:2014+A2:2016 Unfired pressure vessels. Design
S30, S33, S51, S52, S53, T14, T16, T19, T33, T60, T61 T69, Z Part 2	C1.5.10, C1.3.20, C1.5.50, C1.5.60, C1.5.70, C1.4.70, C1.4.90, C1.4.100, D1.4.130, C1.4.380, C1.4.385, C1.4.120		Amendment 1	BS EN 13445-4:2014+A1:2016 Unfired pressure vessels. Fabrication
S30, S33, S51, S52, S53, T14, T16, T19, T33, T60, T61 T69, Z Part 2	C1.5.10, C1.3.20, C1.5.50, C1.5.60, C1.5.70, C1.4.70, C1.4.90, C1.4.100, D1.4.130, C1.4.380, C1.4.385, C1.4.120		Amendment 1	BS EN 13445-6:2014+A1:2015 Unfired pressure vessels. Requirements for the design and fabrication of pressure vessels and pressure parts constructed from spheroidal graphite cast iron
S30, S51, S52, S53, T14, T16, T19, T33, T60, T69, Z Part 2	C1.5.10, C1.5.50, C1.5.60, C1.5.70, C1.4.70, C1.4.90, C1.4.100, C1.4.130, C1.4.380, C1.4.120		Amendment 2	BS EN 13480-2:2012+A2:2016 Metallic industrial piping. Materials

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Section 4 Detail Changes to Reference Documents

Work Section		Reference Document - Current	Status of Current Reference	Reference Document - New
CAWS	BG 56			
S30, S51, S52, S53, T14, T16, T19, T33, T60, T69, Z Part 2	C1.5.10, C1.5.50, C1.5.60, C1.5.70, C1.4.70, C1.4.90, C1.4.100, C1.4.130, C1.4.380, C1.4.120		Amendment 3	BS EN 13480-4:2012+A3:2016 Metallic industrial piping. Fabrication and installation
S30, S51, S52, S53, T14, T16, T19, T33, T60, T69, Z Part 2	C1.5.10, C1.5.50, C1.5.60, C1.5.70, C1.4.70, C1.4.90, C1.4.100, C1.4.130, C1.4.380, C1.4.120		Amendment 2	BS EN 13480-5:2012+A2:2017 Metallic industrial piping. Inspection and testing
S30, S51, S52, S53, T14, T16, T19, T33, T60, T69, Z Part 2	C1.5.10, C1.5.50, C1.5.60, C1.5.70, C1.4.70, C1.4.90, C1.4.100, C1.4.130, C1.4.380, C1.4.120		Amendment 1	BS EN 13480-6:2012+A1:2016 Metallic industrial piping. Additional requirements for buried piping
S30, S51, S52, S53, T14, T16, T19, T33, T60, T69, Z Part 2	C1.5.10, C1.5.50, C1.5.60, C1.5.70, C1.4.70, C1.4.90, C1.4.100, C1.4.130, C1.4.380, C1.4.120		Amendment 2	BS EN 13480-8:2012+A2:2015 Metallic industrial piping. Additional requirements for aluminium and aluminium alloy piping
S30, S33, S51, S52, S53, S70, T10, T11, T12, T13, T14, T16, T19, T20, T33, T60,	C1.5.10, C1.3.20, C1.5.50, C1.5.60, C1.5.70, D1.6.70, C1.4.30, C1.4.40, C1.4.50,		Amendment 2	PD 5500:2015+A2:2016 Specification for unfired fusion welded pressure vessels

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Section 4 Detail Changes to Reference Documents

Work Section		Reference Document - Current	Status of Current Reference	Reference Document - New
CAWS	BG 56			
T61, T69, Z Part 2	C1.4.60, C1.4.70, C1.4.90, C1.4.100, C1.4.110, C1.4.130, C1.4.380, C1.4.385, C1.4.120			
S33, W50, W51, Y41, Y61, Y73, Y92	C1.3.20, C2.5.10, C2.1.100, D1.4.460, D2.6.20, D2.2.50, D4.30	BS EN 60079-6:2007 Explosive atmospheres. Equipment protected by oil immersion "o"	Withdrawn, Superseded	BS EN 60079-6:2015 Explosive atmospheres. Equipment protection by liquid immersion "o"
S33, W50, W51, Y41, Y61, Y73, Y92	C1.3.20, C2.5.10, C2.1.100, D1.4.460, D2.6.20, D2.2.50, D4.30	BS EN 60079-7:2015 Explosive atmospheres. Equipment protection by increased safety "e"	Withdrawn, Superseded	BS EN 60079-7:2015 Explosive atmospheres. Equipment protection by increased safety "e"
S33, W50, W51, Y41, Y61, Y73, Y92	C1.3.20, C2.5.10, C2.1.100, D1.4.460, D2.6.20, D2.2.50, D4.30	BS EN 60079-10-1:2009 Explosive atmospheres. Classification of areas. Explosive gas atmospheres	Withdrawn, Superseded	BS EN 60079-10-1:2015 Explosive atmospheres. Classification of areas. Explosive gas atmospheres
S33, W50, W51, Y41, Y61, Y73, Y92	C1.3.20, C2.5.10, C2.1.100, D1.4.460, D2.6.20, D2.2.50, D4.30	BS EN 60079-29-1:2007 Explosive atmospheres. Gas detectors. Performance requirements of detectors for flammable gases	Withdrawn, Superseded	BS EN 60079-29-1:2016 Explosive atmospheres. Gas detectors. Performance requirements of detectors for flammable gases
S34	C1.5.30		New Addition	BS EN 13348:2016 Copper and copper alloys. Seamless, round copper tubes for medical gases or vacuum
S34	C1.5.30	BS EN ISO 7396-1:2007+A3:2013 Medical gas pipeline systems. Pipeline systems for compressed medical gases and vacuum	Withdrawn, Superseded	BS EN ISO 7396-1:2016 Medical gas pipeline systems. Pipeline systems for compressed medical gases and vacuum

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Section 4 Detail Changes to Reference Documents

Work Section		Reference Document - Current	Status of Current Reference	Reference Document - New
CAWS	BG 56			
T10, T11, T13, T14, T16, T19, T32, T33, T60, Z Part 2	C1.4.30, C1.4.40, C1.4.60, C1.4.70, C1.4.90, C1.4.100, C1.4.130, C1.4.380, C1.4.120	BS EN 12953-3:2002 Shell boilers. Design and calculation for pressure parts	Withdrawn, Superseded	BS EN 12953-3:2016 Shell boilers. Design and calculation for pressure parts
T14, T60, T62, T69, T70, U39, U60, U70	C1.4.70, C1.4.380, C1.4.400, C1.4.390, C1.4.350, C1.4.430	BS EN 12735-1:2010 Copper and copper alloys. Seamless, round copper tubes for air conditioning and refrigeration. Tubes for piping systems	Withdrawn, Superseded	BS EN 12735-1:2016 Copper and copper alloys. Seamless, round tubes for air conditioning and refrigeration. Tubes for piping systems
T14, T60, T69	C1.4.70, C1.4.380,	BS EN 14825:2013 Air conditioners, liquid chilling packages and heat pumps, with electrically driven compressors, for space heating and cooling. Testing and rating at part load conditions and calculation of seasonal performance	Withdrawn, Superseded	BS EN 14825:2016 Air conditioners, liquid chilling packages and heat pumps, with electrically driven compressors, for space heating and cooling. Testing and rating at part load conditions and calculation of seasonal performance
T19, V10, V13	C1.4.100, C2.1.10, D2.1.10, C2.1.40, D2.1.40		New Addition	BS ISO 8528-8:2016 Reciprocating internal combustion engine driven alternating current generating sets. Requirements and tests for low-power generating sets
T19, V10, V13	C1.4.100, C2.1.10, D2.1.10, C2.1.40, D2.1.40		New Addition	BS EN ISO 8528-13:2016 Reciprocating internal combustion engine driven alternating current generating sets. Safety
T32, T69, Y11		BS ISO 15348:2002 Pipework. Metal bellows expansion joints. General	Withdrawn, Superseded	BS EN 14917:2009+A1:2012 Metal bellows expansion joints for pressure applications
T32, T69, Y20	D1.8.40		New Addition	BS EN 16480:2016 Pumps. Minimum



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Section 4 Detail Changes to Reference Documents

Work Section		Reference Document - Current	Status of Current Reference	Reference Document - New
CAWS	BG 56			
				required efficiency of rotodynamic water pumps
U14	C1.4.220		New Addition	BS ISO 21927-9:2012 Smoke and heat control systems. Specification for control equipment
U14, Y30	C1.4.220, D1.4.510	BS EN 12101-2:2003 Smoke and heat control systems. Specification for natural smoke and heat exhaust ventilators	Withdrawn, Superseded	BS EN 12101-2:2017 Smoke and heat control systems. Natural smoke and heat exhaust ventilators
V11, V12, V20, V30, V31, V32, W69, Y71, Y72, Y73	C2.1.20, C2.1.30, C2.1.60, C2.1.70, C2.1.80, C2.1.90, D2.6.50, D2.6.60, D2.2.50		Amendment 2	BS EN 60269-4:2009+A2:2016 Low-voltage fuses. Supplementary requirements for fuse-links for the protection of semiconductor devices
V11, Y71	C2.1.20, D2.6.50	BS EN 62056-47:2007 Electricity metering. Data exchange for meter reading, tariff and load control. COSEM transport layers for IPv4 networks	Withdrawn, Superseded	BS EN 62056-4-7:2016 Electricity metering data exchange. The DLMS/COSEM suite. DLMS/COSEM transport layer for IP networks
V11, Y71	C2.1.20, D2.6.50	BS EN 62056-5-3:2014 Electricity metering data exchange. The DLMS/COSEM suite. The DLMS/COSEM application layer	Withdrawn, Superseded	BS EN 62056-5-3:2016 Electricity metering data exchange. The DLMS/COSEM suite. DLMS/COSEM application layer
V11, Y71	C2.1.20, D2.6.50	BS EN 62056-6-1:2013 Electricity metering data exchange. The DLMS/COSEM suite. Object Identification System (OBIS)	Withdrawn, Superseded	BS EN 62056-6-1:2016 Electricity metering data exchange. The DLMS/COSEM suite. Object Identification System (OBIS)
V11, Y71	C2.1.20, D2.6.50	BS EN 62056-6-2:2013 Electricity metering data exchange. The DLMS/COSEM suite. COSEM interface classes	Withdrawn, Superseded	BS EN 62056-6-2:2016 Electricity metering data exchange. The DLMS/COSEM suite. COSEM interface classes
V11, Y71	C2.1.20, D2.6.50		New Addition	BS EN 62056-7-5:2016 Electricity metering data exchange. The

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Work Section		Reference Document - Current	Status of Current Reference	Reference Document - New
CAWS	BG 56			
				DLMS/COSEM suite. Local data transmission profiles for Local Networks (LN)
V11, V90, V91, V92, W42, Y82	D2.1.20, C2.4.30, D2.7.20		Amendment 6	BS EN ISO 7010:2012+A6:2016 Graphical symbols. Safety colours and safety signs. Registered safety signs
V90			New Addition	DD IEC/PAS 62717:2011 LED modules for general lighting. Performance requirements
V90			New Addition	PD CEN/TS 54-32:2015 Fire detection and fire alarm systems. Planning, design, installation, commissioning, use and maintenance of voice alarm systems
V90, V91, Y74	D2.6.70	BS 7288:1990 Specification for socket outlets incorporating residual current devices (S.R.C.D.s)	Withdrawn, Superseded	BS 7288:2016 Specification for residual current devices with or without overcurrent protection for socket-outlets for household and similar uses
V90, V91, V92, W10, W12, W20, W21, W23, W30, W40, W41, W42, W51, W53, W56, W70, Y80, Z Part 2	C2.3.10, C2.3.80, C2.3.50, C2.3.90, C2.3.110, C2.3.20, C2.4.10, C2.4.20, C2.4.30, C2.1.100, C2.1.140, C2.1.110, C2.3.30, D2.1.120, C2.1.120	BS EN 50310:2010 Application of equipotential bonding and earthing in buildings with information technology equipment	Withdrawn, Superseded	BS EN 50310:2016 Telecommunications bonding networks for buildings and other structures
W21, W42	C2.3.90, C2.4.30	BS EN ISO 9241-210:2010 Ergonomics of human-system interaction.	Withdrawn, Superseded	BS EN ISO 9241-920:2016 Ergonomics of human-system interaction.

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Section 4 Detail Changes to Reference Documents

Work Section		Reference Document - Current	Status of Current Reference	Reference Document - New
CAWS	BG 56			
		Human-centred design for interactive systems		Guidance on tactile and haptic interactions
W52, Y80	C2.1.130, D2.1.120		New Addition	BS EN 62561-4:2011 Lightning protection system components (LPSC). Requirements for conductor fasteners
W52, Y80	C2.1.130, D2.1.120		New Addition	BS EN 62561-5:2011 Lightning protection system components (LPSC). Requirements for earth electrode inspection housings and earth electrode seals
W69, Y71, Y72	D2.6.50, D2.6.60	BS 5584:1978, EN 50022:1977 Specification for low voltage switchgear and controlgear for industrial use. Mounting rails. Top hat rails 35 mm wide for snap-on mounting of equipment	Withdrawn, Superseded	BS EN 60715:2001, IEC 60715:1981+A1:1995
		BS 5585:1978, EN 50023:1977 Specification for low voltage switchgear and controlgear for industrial use. Mounting rails. Top hat rails 75 mm wide for snap-on mounting of equipment		
Y10	D1.8.10		New Addition	BS EN 10240:1998 Internal and/or external protective coatings for steel tubes. Specification for hot dip galvanized coatings applied in automatic plants
Y10, Z Part 2	D1.8.10, C1.8.10	BS EN ISO 17672:2010 Brazing. Filler metals	Withdrawn, Superseded	BS EN ISO 17672:2016 Brazing. Filler metals
Y11, Z Part 2	D1.8.20, C1.8.20	BS ISO 7121:2006 Steel ball valves for general-purpose industrial applications	Withdrawn, Superseded	BS ISO 7121:2016 Steel ball valves for general-purpose industrial applications
Y30, Y45	D1.4.510, D1.4.500	BS EN ISO 10140-1:2010+A2:2014	Superseded, Withdrawn	BS EN ISO 10140-1:2016 Acoustics. Laboratory measurement of sound

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Section 4 Detail Changes to Reference Documents

Work Section		Reference Document - Current	Status of Current Reference	Reference Document - New
CAWS	BG 56			
		Acoustics. Laboratory measurement of sound insulation of building elements. Application rules for specific products		insulation of building elements. Application rules for specific products
Y30, Y45	D1.4.510, D1.4.500		Amendment 1	BS EN ISO 10140-3:2010+A1:2015 Acoustics. Laboratory measurement of sound insulation of building elements. Measurement of impact sound insulation
Y30, Y45	D1.4.510, D1.4.500		Amendment 1	BS EN ISO 10140-5:2010+A1:2014 Acoustics. Laboratory measurement of sound insulation of building elements. Requirements for test facilities and equipment
Y40	D1.4.450		New Addition	BS EN ISO 14122-1:2016 Safety of machinery. Permanent means of access to machinery. Choice of fixed means and general requirements of access
Y40	D1.4.450		New Addition	BS EN ISO 14122-2:2016 Safety of machinery. Permanent means of access to machinery. Working platforms and walkways
Y40	D1.4.450		New Addition	BS EN ISO 14122-3:2016 Safety of machinery. Permanent means of access to machinery. Stairs, stepladders and guard-rails
Y40	D1.4.450		New Addition	BS EN ISO 14122-4:2016 Safety of machinery. Permanent means of access to machinery. Fixed ladders

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**Section 4      Detail Changes to Reference Documents**

Work Section		Reference Document - Current	Status of Current Reference	Reference Document - New
CAWS	BG 56			
Y71	D2.6.50	BS EN 60143-1:2004 Series capacitors for power systems. General	Withdrawn, Superseded	BS EN 60143-1:2015 Series capacitors for power systems. General
Y71	D2.6.50	BS EN 60143-2:1995, IEC 60143-2:1994 Series capacitors for power systems. Protective equipment for series capacitor banks	Withdrawn, Superseded	BS EN 60143-2:2013 Series capacitors for power systems. Protective equipment for series capacitor banks
Y71	D2.6.50		New Addition	BS EN 60143-4:2010 Series capacitors for power systems. Thyristors controlled series capacitors