

# What's New December 2019

## Contents

### Content Common to CAWS and BG 56 Based Specifications

- Section 1. Summary
- Section 2. Details of Work Section Updates & Audits
- Section 3. Schedules
- Section 4. Detail Changes to Reference Documents

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 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>• Guidance within lighting sections updated to include latest CIBSE Codes / SLL Lighting Guides</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>• General update of clauses for grilles and diffusers</li> <li>• Technical content of steam, compressed air and medical / laboratory gases systems rationalised</li> <li>• Central refrigeration / AC sections updated with latest refrigerants, standards and ammonia chillers</li> <li>• Chlorine dioxide clause for disinfecting cold water systems added and filtration equipment clauses enhanced</li> <li>• Side stream filtration added to LTHW / chilled water</li> <li>• General update of copper pipe clauses</li> <li>• General update of valves and actuator standards</li> <li>• General review of lifts sections</li> <li>• General review of lighting sections in accordance with recently updated or new standards and industry best practice</li> <li>• Low-concentration PV systems added, plus update to schedule Photovoltaic Modules and Storage Sub-Systems</li> <li>• Domestic fire alarms updated to BS 5893-6</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>• BCGA codes of practice for laboratory / industrial gas installations</li> <li>• CIBSE SLL Lighting Guides</li> </ul> <p><b>Some significant standards covered by the update include:</b></p> <ul style="list-style-type: none"> <li>• BS 5839-6 for domestic fire detection and alarms</li> <li>• BS 5410-1 for liquid fuel burning installations for space heating and hot water supply in domestic buildings</li> <li>• Parts 1 &amp; 2 of BS EN 13941 for district heating pipes</li> <li>• BS EN ISO 16032 for measurement of sound pressure level from service equipment in buildings</li> <li>• BS EN ISO 29463 for testing high efficiency filters</li> <li>• PD CEN ISO/TS 21805 for vents to safeguard the structural integrity of enclosures protected by gaseous fire-extinguishing systems</li> </ul> <p style="text-align: right;"><i>See Section 4 for details of all changes to reference documents</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 to the following CAWS section references.

#### Builders Work - BG56 B5 & CAWS A13

- New clause 100.152 added in BG56 specification B5 for "internal services ducts" when they are part of the M&E scope (reference to BS 8313).
- List of possible builders work added to A13:140.000 for users to edit to suit particular project requirements.

#### Description of the Works and Common Design Criteria - A13 and BG56 Section B6

Reference to HTM 08-01 for acoustic requirements added to A13:220.100 and 230.100 and B6:100.120 & 100.150 in the BG 56 specification.

#### Preliminaries - A33 & A64

- Reference to BS 8580-1 for legionella risk assessments, BS 8560 (Code of Practice for safe work at height) and BS 8313 for services ducts added to A33:171.000 and A64:710.110.
- New clauses A33:172.000 and A64:710.112 added to reference Building Regulations generally and references to Building Regulations / Approved Documents or Technical Handbooks etc. amended in existing clauses A33:171.000 and A64:710.110 to simply refer to these new clauses.

#### Testing and Commissioning of Mechanical Services - B20, S12, T32, U19, U39 (Self-contained Sections) & Y51/Z Part 2

- Part 2 static testing clause 251.030 enhanced to include Refrigerating systems and reference made to IOR Codes of Practice / BS EN 378-2 and CIBSE Code R.
- Part 2 commissioning clause enhanced to include standards for. Ventilation for buildings. Test procedures and measurement methods to hand over air conditioning and ventilation systems (BS EN 12599) and Measurements in the occupied zone of air-conditioned/ventilated rooms to evaluate thermal and acoustic conditions (BS EN 15726 – also added in clause Y51.3040).
- Performance testing Part 2 clause 251.050 enhanced to include standard for measurement of sound pressure level from service equipment in buildings. Engineering method (BS EN ISO 16032).
- BS EN 378-2 added to Y51.3060 (commissioning refrigerating systems).
- New clauses for Acoustic testing referencing BS EN ISO 16032 added to self-contained sections as below:
  - S12:900.070
  - T32:800.030
  - U19:600.020
  - U39:900.020
- New clause in B20 (residential projects) 1300.304 for testing and commissioning of comfort cooling systems.
- BS 7593 added to B20:1300.202 (reference circulating water treatment and cleaning and flushing).
- Commissioning of district heating / cooling systems added to 251.040 and reference to BS EN 13941-2 Annex E included.

#### Residential Projects - B20 (Self-contained Section)

- Reference to BSRIA BG6/2018 added in clause 100.101.
- BS 8303 added to 400.401 for installation and commissioning of heaters and independent boilers burning wood or woody biomass.
- New section in clause 600.204 for performance testing of fans (standards BS EN ISO 5801, BS EN IEC 60665 and BS 848-9, ISO 13348).
- Updates to standards for plastic pipes in 200.202 and 1000.104 and 200.201 deleted
- Descriptions added to standards for clarity in 400.203.

## Content Common to CAWS and BG 56 Based Specifications

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

- Grades of alarm systems for dwellings have been updated to align with the changes in BS 5839-6:2019 in Clause 810.012.
- Improve references to BS EN IEC 60238 and BS 7895 in Clause 800.507.
- Lock state contacts added to Clause 800.025, and updated references to relevant parts of BS EN 50131 series, PD CLC/TS 50131 and DD CLC/TS 50131-7 in this Clause.
- Clause 800.508 been updated to reflect the change in all part of BS EN 62442 to BS EN IEC 62442.
- Clauses 800.308, 810.138, 820.038, 830.048, 840.028 and 850.048 for mineral insulated cable set to pre-delete strikethrough as the cable type is rarely used.
- BS 4678-4 has been withdrawn. References to this standard replaced by references to relevant parts of BS EN 50085 in Clauses 800.304, 810.134, 820.034, 830.044, 840.024 and 850.044. Requirements for mechanical strength and have been aligned with BS EN 50085 accordingly in these clauses.
- Clauses 800.522 updated to reflect BS EN IEC 61558-1 replaces BS EN 61558-1. Also, added correct standards for isolating transformers and safety isolating transformers (BS EN 61558-2-4 and BS EN 61558-2-6 respectively).
- Clause 800.523 updated to reflect BS EN IEC 61558-1 replaces BS EN 61558-1, also corrected the reference standard for isolated shaver outlets to BS EN 61558-2-5.
- Clauses 800.805 and 800.806 updated to reflect the fact that certain parts of BS EN IEC 63044 and BS EN 63044 have replaced some parts of BS EN 50491.
- Clause 810.015 updated to include for evacuation alert systems for use in flats, according to BS 8629.
- New Clause 810.130 added for evacuation alert systems for use in flats to BS 8629.

#### Liquid Fuel Firing - B20, S41, T10 & T32

Various clauses amended to reflect that BS 5410-1:2019 for liquid fuel burning installations for space heating and hot water supply in domestic buildings is now for use up to 70kW.

#### Portable Fire Extinguishers / Blankets - N10

BS 5306-10 for colour coding added to 300.010.

#### Domestic Kitchen Fittings and Sanitary Appliances - N11 & N13

- BS 8303 added to N11:320.010.
- Various BS updates to N13:310.010 and 310.070, 080 & 090.

#### Underground Drainage - R12

- BS EN 15885 added to 310.055 & 310.056 for repair and replacement of drains.
- BS EN 12201 and BS ISO 4427 added to 310.060 (polyethylene pipe).

#### Cold Water - S10

New clause 300.067 for chlorine dioxide generation plant and dosing.

#### Hot Water - S11 & S12 (Self-contained Section)

- Option for gas fired water heater combined with heat pump added to S11:300.030 and S12 200.030 – standard BS EN 13203-5.
- New clause 300.032 added for heat pump water heaters.
- BS EN 15332 for energy assessments of hot water storage tanks (including standing heat loss) added to S11:300.000 and S12:200.001.

#### Borehole / Well Water - S16

Clause 330.080 updated to reflect BS EN IEC 61558-1 replaces BS EN 61558-1. Additionally, corrected references to other parts of BS EN 61558 for control and safety isolating transformers.

## Content Common to CAWS and BG 56 Based Specifications

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

#### Treated Water - S20

Clause 310.070 for filtration equipment supplemented to include types of filter and parameters for duty.

#### Compressed Air - S30 & S31

- Work section S31 removed as this section is for a compressed air system for pneumatic controls (BMS) which is very rarely used in building services and had not been updated for a long time.
- BS EN 12021 added to 300.005 for breathing air.
- BS EN ISO 2151 added to 300.040 for acoustic tests on compressors.
- Clauses 310.020 and 310.180 expanded to include details for compressor motor.
- BS EN ISO 8573-3 and BS EN ISO 3744 for humidity / noise measurements.
- BS ISO 8573-1 added to 310.060 for air filters.
- BS 6005 for polycarbonate bowls added to 310.060 and 310.062.
- Parts 1 & 7 of BS EN ISO 4126 added to 310.150 (safety valves).
- Options for compressed air pipe material added to 310.160.
- Clause 310.170 for belt drives removed.
- Reference to HSG 39 for compressed air safety added to 320.005 and 320.040.
- British Compressed Air Society (BCAS) guide to the selection and installation of compressed air services added to 320.005 and 320.010.
- 320.040 updated with safety standards.

#### Natural Gas - S32

BS EN 14382 added to 310.080 for gas safety shut off devices.

#### LPG - S33

- BS EN 14071 added to 310.010 for pressure relief valve isolating devices etc.
- BS EN ISO 15995 and BS EN ISO 14245 added to 310.010 for cylinder valves.
- Testing and commissioning added to 320.010 (clause previously titled Installation).

#### Medical / Laboratory / Industrial Gas - S34

- Section title changed to include Industrial and clauses supplemented to account to non-medical installations:
  - New clause 300.012 added referencing British Compressed Gases Association (BCGA) Codes of practice / Technical information sheets and European Industrial Gases Association (EIGA) guidelines
  - New clause 310.022 added for liquid bulk storage referring to BCGA CoP 36 and 26
  - New clause 310.032 for lab/industrial gas cylinder manifolds, referring to BCGA CoP 4
  - Clause 320.020 (installation) enhanced to include "manifolds" and references to BCGA CoP's 4, 5, 6, 44 & 36.
- BS EN ISO 10524 for manifold and line pressure regulators added to 310.030.
- Clause 300.011 deleted.

#### Vacuum - S50

Types of pump and each part of BS ISO 21306 detailed in 310.010.

#### Steam - S51, S52 & S53

- Work Sections S52 (clean steam) and S53 (high pressure steam) removed as they are identical to S51 and therefore do not offer the user any different content that is already in S51. To cover the loss of S52, some new clauses are added to S51 to cover clean steam generators and clean steam pipework distribution components etc. none of which was currently in S52. S53 is simply titled High Pressure Steam – this can be accounted for in S51 by a user when they write the Part 1 clauses and define operating pressures etc. for the system.

## Content Common to CAWS and BG 56 Based Specifications

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

- The following new clauses are added in S51:
  - 300.032 for feed water and condensate return tank
  - 300.080 for steam meters
  - 300.090 for blowdown vessel and associated facilities
  - 300.092 for steam accumulator
  - 300.095 for steam traps and monitoring
  - 300.102 for clean steam application
  - 300.104 for clean steam standards
  - 300.106 for water pre-treatment for clean steam generator
  - 300.108 for clean steam generator
  - 300.110 for clean steam distribution system and main components
- 300.040 for steam powered condensate pump and 300.050 for unit with electric pumps enhanced and materials options added. Cascade control option added to 300.050.
- Types and ancillaries for steam separator added to 300.080.
- Testing and commissioning added to 310.010. Reference to HTM 01-01 Part C for steam service on healthcare projects, BS EN 285 for sterilisers and BESA TR 20/8 for steam and condensate pipework.

#### Fire Hose Reels - S60

Clause 300.030 for integration, control and monitoring, has been updated to require interfaces to comply as appropriate with relevant parts of BS 7273 following the publication of BS 7273-6.

#### Dry Risers - S61

Clause 300.050 for integration, control and monitoring, has been updated to require interfaces to comply as appropriate with relevant parts of BS 7273 following the publication of BS 7273-6.

#### Wet Risers - S62

Clause 300.050 for integration, control and monitoring, has been updated to require interfaces to comply as appropriate with relevant parts of BS 7273 following the publication of BS 7273-6.

#### Sprinklers - S63

Clause 300.070 for integration, control and monitoring, has been updated to require interfaces to comply as appropriate with relevant parts of BS 7273 following the publication of BS 7273-6.

#### Deluge - S64

New clause 310.042 for deluge alarm valves, refers to BS EN 12259-9.

#### Fire Hydrants - S65

Clause 300.040 for integration, control and monitoring, has been updated to require interfaces to comply as appropriate with relevant parts of BS 7273 following the publication of BS 7273-6.

#### Gas Firefighting - S70

- PD CEN ISO/TS 21805 added to clauses 310.080, 310.110 and 310.112:
  - This provides guidance on design, selection and installation of vents to safeguard the structural integrity of enclosures protected by gaseous fire-extinguishing systems
- Volume of cylinders to BS EN ISO 9809 added in 310.100 for clarity.
- Descriptive text added to standards in 310.040 and 310.060 for inert gas and chemical systems.
- 300.050 for integration, control and monitoring, has been updated to require interfaces to comply as appropriate with relevant parts of BS 7273 following the publication of BS 7273-6.

#### Foam Firefighting - S71

Clause 300.040 for integration, control and monitoring, has been updated to require interfaces to comply as appropriate with relevant parts of BS 7273 following the publication of BS 7273-6.

## Content Common to CAWS and BG 56 Based Specifications

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

#### Watermist Fire Protection - S73

- BS 8663-1 for watermist nozzles added to 310.010 and 310.020.
- Clause 300.060 for integration, control and monitoring, has been updated to require interfaces to comply as appropriate with relevant parts of BS 7273 following the publication of BS 7273-6.

#### Chimneys and Flues - T10, T11, T13, T16 & T32

- BS EN 1366 and BS EN 1363-1 for chimney testing for fire resistance added to T10:310.090, T11:310.130, T13:310.130, T16:310.130 & T32:200.030.
- BS EN 13384 added to T10:310.090, T11:310.130, and T13:310.050 for calculation of the thermal and fluid dynamic characteristics of chimneys.

#### Packaged Team Generators - T13

- Types, fuel details and options for steam separator to be provided by the generator manufacturer added to 310.010.
- New clause 310.036 added for feedwater and condensate return tank.
- Minor updates to clauses and 310.030 for blowdown vessels and Installation (reference to BESA TR 20/8 added).

#### Heat Pumps - T14

- 300.003 updated for safety standards including BS EN 12263 for safety switching devices, to limit the pressure in refrigerating systems to the limits of the refrigerating system, standards for use in explosive atmospheres and IOR codes of practice.
- 300.004 for equipment enhanced to include standards for valves.
- BS ISO 19967 (parts 1&2) for hot water or space heating added to clause 300.030 for air to water heat pumps.
- International standards added to 300.020:
  - BS ISO 5151
  - BS ISO 15042
  - BS ISO 13253
- BS EN 12102-2 for determining sound power levels in domestic hot water heaters added to 300.030, 300.040, and 300.041.

#### Biomass Boilers and Ancillary Plant - T16

- Reference to BS EN ISO 20023 added to clauses 310.050, 310.060 and 310.120:
  - The standard covers safe handling and storage of wood pellets in residential and other small-scale applications.

#### CHP - T19

- BS HD 60364-8-2 for prosumer's electrical installations added to Clause 320.015.
- Clause 300.040 updated to reflect BS EN 50549-1 superseding BS EN 50438.

#### Low Temperature Hot Water Heating - T31 & T32 (Self-contained Section)

- New clauses added for side stream filtration plant:
  - T31:310.160 for filter media type including water conditioning for PH control, corrosion inhibition, regulation of hardness etc.
  - T31:310.162 for side stream filter only (various types)
  - T32:200.082 for side stream filter
  - T32:200.084 for filter + water conditioning

#### Pipelines and Pipework - Y10 / Z Part 2 and T20, T32, T61, T69 (Self-contained Sections)

- Pre-insulated / buried pipework:
  - Reference to BS EN 13941-1, BS EN 13941-2 (these two parts replace BS EN 13941:2009) and BS EN 15698 Parts 1&2 amended / clarified in Y10.9060# & 9060A, T61:310.040, T32:500.058, T69:300.055 and T20:310.040.

## Content Common to CAWS and BG 56 Based Specifications

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

- Copper pipework:
  - BS EN 13349 for copper tube covered with solid plastic to protect against external corrosion and impact damage added to various clauses
  - Copper tube for refrigerant pipework corrected in B20:1000.113 (to BS EN 12735-1) and also added to Part 2 Clause 210.030 (new Y reference clause Y10.2292). It was previously only listed in various AC work sections Part 3 clauses.
  - Copper tube for medical gas and vacuum pipework added to Part 2 Clause 210.030 (new Y reference clause Y10.2294). NB. It was previously only listed in various S34 Work Section Part 3 clauses
  - Coiled tube added in various places to describe R220 annealed tube
  - Out of date classes W, X, Y Z removed from various places
- BS EN ISO 19893 for system manufacturer testing of the resistance of assemblies of hot and cold water pipes and fittings to temperature cycling added to 210.050.
- BS EN 12201 and BS ISO 4427 added to 210.050 (polyethylene pipe).
- BS 7291-1 (general requirements) added to clauses 2750#, 2750A, 2760# and 2760A.

#### Valves and Pipework Ancillaries - T32 & Y11 / Z Part 2

- Various minor amendments made to Part 2 clauses 211.030, 211.040, 211.050, 211.060 to clarify types / valve materials and some standards added.
- BS EN 19 and BS ISO 5209 added to 211.010 for marking of valves.
- Clause 211.110 for TRV's significantly updated to permit most types to be described including "smart" electronic types in the part 2 clause without the need for the Y reference clauses. The series of Y reference clauses 2270 A-F removed, with just 2270# retained for anything bespoke.
- Clause T32:200.110 for controls aligned with content on TRV's in the Part 2 Clause 211.110.
- New clause for thermoplastic valves - 211.032.
- Clauses 211.075 and 211.076 amended to include correct descriptions for Parts 1-6 of BS EN 1434 for energy / heat meters.
- More options for steam traps and accessories added to Part 2 Clause 211.250.
- New Y reference clause Y11.2582 added for venturi orifice type trap.

#### Pumps - T32, T69 & Y20 / Z Part 2

- BS EN 17038 Parts 1&2 for determining glanded centrifugal pump EEI added to:
  - T69:200.060
  - T32:200.080
  - Y20:1020
  - 220.030
- Belt drive option for pumps removed from 200.070.
- New clause 200.085 added to T32 for pump workmanship.
- 220.010 enhanced to enable any specific requirements for hydraulic and noise testing to be included.
- Y20.1040 for pump testing enhanced:
  - BS EN ISO 5198 added for when extremely high accuracy hydraulic testing is required
  - BS EN ISO 20361 added for noise measurements

#### Gas Fired Heating (Local Heating Units and Warm Air Heating) - T40, T41 & T42

- Clauses T42:300.020 and 300.030 updated to incorporate new standards as below:
  - BS EN 17082 added for convection heaters (replaces BS EN 525, BS EN 1020, BS EN 778, BS EN 1319, BS EN 1196)
  - BS EN 416 and BS EN 17175 added for radiant tube / strip heaters (these standards replace BS EN BS EN 416-1, BS EN 416-2 and Parts 1-4 of BS EN 777)
  - BS EN 419 added for luminous radiant heaters (replaces BS EN 419-1:2009 / BS EN 419-2:2006)

## Content Common to CAWS and BG 56 Based Specifications

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

- New standard BS EN 17082 for forced convection heaters added to T40:300.025 and T41:200.010 (replaces BS EN 1319, BS EN 525, BS EN 621, BS EN 1020, BS EN 1196, BS EN 778).

#### Central Refrigeration - T60 & T61 and Primary / Secondary Cooling Distribution T69 (Self-contained Section)

- General update of the following clauses to update refrigerant options:
  - T60 chiller clauses 310.010 – 310.054
  - T69 chiller clauses 200.010 – 200.025
- T60:300.060 and T69:200.005 for safety standards updated to include BS EN 12263 and IOR codes of practice.
- T60:300.070 and T69:200.090 for equipment enhanced to include standards for valves.
- Ammonia air cooled chiller clause T60:310.023 updated and new clauses 310.024 & 310.060 added for water cooled ammonia chiller and ammonia refrigerant chiller plant room or enclosure leak detection and ventilation.
- Minor updates to T60 workmanship clauses 320.010 and 320.060, plus T69:200.008 & 200.050 to include IOR codes of practice.
- New clauses added for side stream filtration plant:
  - T60:310.122 & 310.124
  - T61:310.012 & 310.014
  - T69:200.078 & 200.079

#### VRF System - T62

- 300.015 updated for safety standards including BS EN 12263 for safety switching devices, to limit the pressure in refrigerating systems to the limits of the refrigerating system and IOR codes of practice.
- IOR safety codes of practice added to 300.080 and 310.020 (refrigerant piping system).

#### Local Cooling / Refrigeration - T70

- IOR safety code of practice added to 300.060 (refrigerant pipework) and 310.010 for installation.
- BS EN 14825 and BS ISO 16358 added to clauses 300.020.

#### Cold Room Systems - T71

- 300.040 enhanced to include reference to BS 378, F-Gas Regulations, IOR codes of practice and BS EN 16855 for walk-in cold room thermal insulation performance.
- BS EN 12735-1 added to 310.080 for refrigerant pipework.
- Refrigerant option list enhanced in 310.090.
- BS EN 16855-2 for cold rooms supplied to site that require on-site cutting of the sandwich panels added to 306.000.

#### Ventilation - U10

- Text added to 310.040 to clarify that BS EN 13141-1 refers to externally and internally mounted air transfer devices.
- Text in 320.010 for installation and commissioning enhanced to clarify that the clause is mainly applicable to natural and mixed mode ventilation systems. References to BS EN 14134 and BSRIA BG 46/2015 added for residential systems.
- Reference to BS EN 16798-1 for indoor environmental quality added to 300.010.

#### Car Park Ventilation - U13

Clause 300.040 for integration, control and monitoring, has been updated to require interfaces to comply as appropriate with relevant parts of BS 7273 following the publication of BS 7273-6.

#### Smoke and Heat Control - U14

Clause 300.040 for integration, control and monitoring, has been updated to require interfaces to comply as appropriate with relevant parts of BS 7273 following the publication of BS 7273-6.



## Content Common to CAWS and BG 56 Based Specifications

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

#### Air Conditioning - U39 (Self-contained Sections)

- R407C removed for refrigerant options in 300.020 – 300.040 and 300.080.
- R410A and R32 added to 300.080 and 300.130 for VRF units and heat pumps.
- IOR safety code of practice added to 600.040 (refrigerant piping installation).

#### Air Conditioning Units - U60

- R407C removed for refrigerant options in 300.020 – 300.040.
- 300.003 updated for safety standards including BS EN 12263 for safety switching devices, to limit the pressure in refrigerating systems to the limits of the refrigerating system, standards for use in explosive atmospheres and IOR codes of practice.
- 300.004 for equipment enhanced to include standards for valves.
- IOR safety code of practice added to 310.020 (refrigerant piping installation).
- BS EN 14825 and BS ISO 16358 added to clauses for types of AC unit (310.030 – 310.060).

#### Emergency and Standby Generators - V10

- Clause 100.021 has been reworded to improve understanding when read in conjunction with Appendix 1 to HTM 06-01.
- Clause 310.015 updated to reflect BS EN 50549-1 supersedes BS EN 50438, and also include BS HD 60364-8-2.

#### HV Supply / Distribution / Public Utility Supply - V11

Clause 300.010 updated to reflect the fact that some parts of BS EN 62271 have been renumbered BS EN IEC 62271.

#### Solar PV Systems - V13

- BS HD 60364-8-2 for prosumer's electrical installations added to Clause 300.010.
- BS EN 61853 / BS EN IEC 61853 series added to Clause 310.010 for energy performance testing of solar PV modules.
- Clause 310.050 updated to reflect BS EN 50549-1 superseding BS EN 50438, and added BS HD 60364-8-2 for prosumer's electrical installations and BS EN 62852 for DC power connectors.
- Schedule Photovoltaic Modules and Storage Sub-System updated to reflect ENA Engineering Recommendations G83 and G59 being replaced by G98, G99 and G100, and to include BS EN 61853 / BS EN IEC 61853 series and BS HD 60364-8-2.
- PD CEN/TR 16999, for structural connections to solar panels, added to Clause 310.020.

#### Wind Power Systems - V14

- Clause has been updated to correct reference to HTM 06-03.
- BS EN 61400-11 added to Clause 300.010 for acoustic noise measurement.
- New standard PD IEC/TS 62738 for design of ground-mounted PV plants added to Clause 300.010.
- BS HD 60364-8-2 for prosumer's electrical installations included in Clauses 300.010 and 310.050
- Clauses 310.015 and 310.016 updated to reflect BS EN 50549-1 superseding BS EN 50438, and BS ND 60364-8-2 added for prosumer's electrical installations.
- Clauses 310.015 and 310.016 updated to additionally refer to relevant parts of BS EN IEC 61400, as some parts of BS EN 61400 are being renumbered to the same part of BS EN IEC 61400.

#### Lighting, Luminaires and Lamps - V21, V41, Y73 / Z Part 2 and B20 (Self-contained Sections)

- Missing link to editable clause Y73.2010# for luminaire specific applications added to 273.020 to allow the clause to be used:
  - BS EN IEC 60598-2-17 for stage / film studio lighting added to 2010#
  - BS EN 61995 for devices added to 2010# for devices for connection of luminaires
- BS EN 62031 and 62717 for LED modules and BS EN 61995 added to 2010A.
- BS EN 61995 added to 2010B.
- BS EN 60838 for misc. lamp holders for building-in added to 2060#.

## Content Common to CAWS and BG 56 Based Specifications

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

- New clauses Y73.2182 and Y73.2192 added and referenced in 273.050:
  - 2182 – fluorescent induction lamp
  - 2192 – metal halide lamps
- Lamp controlgear standard BS EN 61347 added to 273.040.
- BS EN 62717 and BS EN 62031 added to Y73.2215B for performance requirements and safety specifications for LED modules.
- V21 Section Guidance updated to include latest CIBSE Code / SLL Lighting Guides.
- V21:100.020 / 100.021 (Design parameters):
  - Limiting values for Building Regs updated and latest CIBSE Code / SLL Lighting Guides added to clause and clause guidance in 100.020
  - BS EN 12193 & BS EN 17037 added for indoor sports lighting and daylighting in buildings. BS EN 17037 added in 100.021
- V21:100.041 & 100.042 (control requirements) – relevant parts of BS EN 62386 for digital addressable lighting interface added.
- New clause added – V21:310.002 for display lighting / flexible lighting sources:
  - Standards included – BS IEC 62595 / IEC 62595 (states “relevant parts of” in clause)
- V41 – BS EN 12193 added for sports lighting added to 100.020 (flood lighting).
- V41 – New clause 300.005 added to enable luminaires to be either specified directly in a Part 3 clause in this special lighting section that may not be covered in Y73 / 273.xxx clause or simply cross refer to Y73 / 273.xxx.
- Clause guidance in B20 updated to reflect latest CIBSE Code / SLL Lighting Guides.
- V41 Section Guidance updated to include latest SLL Lighting Guides and Institution of Lighting Professionals (ILP) guidance notes for reduction of obtrusive light and the brightness of illuminated advertisements.
- Clause V21:100.012 has been updated to align clinical risk categories with HTM 06-01:2017, and more accurately describe the requirements for duplicated lighting circuits in line with Regulation 710.559 of BS 7671.
- Clause Y73.2090# has been updated to reflect the change in all part of BS EN 62442 to BS EN IEC 62442. It has also been set to pre-delete as the only reference to it is also pre-delete.
- Clauses Y73.2090A and 2095 have been updated to reflect the change in all part of BS EN 62442 to BS EN IEC 62442.

#### Extra-low Voltage / Reduced Low Voltage AC Supply - V30

Clause 300.010 updated to reflect BS EN IEC 61558-1 replaces BS EN 61558-1. Added context to standards to assist in correct specification by users.

#### Uninterruptable Power Supply - V32

- Clauses 310.010 and 310.015 are updated as BS EN 62040-1 and BS EN 62040-2 have been replaced by BS EN IEC 62040-1 and BS EN IEC 62040-2 respectively.
- Clause 100.011 has been updated to correct the chapter numbers referenced in HTM 06-01.

#### Electric Vehicle Charging Equipment and Installations - V34

- BS HD 60364-8-2 for prosumer’s electrical installations included in Clauses 300.030 and 310.040.
- Clauses 300.010 and 310.010 updated as BS EN IEC 61851-1 replaces BS EN 61851-1.

#### Electrical Energy Storage Systems - V35

- Clause 100.021 has been updated to align clinical risk categories with HTM 06-01:2017.
- BS HD 60364-8-2 for prosumer’s electrical installations included in Clauses 100.020 and 310.020.
- BS EN IEC 62933 and related performance parameters added to Clause 100.030.
- Clause 310.010 and 310.040 have been updated to reflect BS EN 50549-1 supersedes BS EN 50438, and also include BS HD 60364-8-2.

## Content Common to CAWS and BG 56 Based Specifications

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

#### Emergency Lighting - V40

- Clause 300.030 for integration, control and monitoring, has been updated to require interfaces to comply as appropriate with relevant parts of BS 7273 following the publication of BS 7273-6.
- Clause 310.050 updated as BS EN IEC 62040-1 replaces BS EN 62040-1.

#### Electrical Installations - V90 (Self-contained Section)

- Improve references to BS EN IEC 60238 and BS 7895 in Clauses 500.070 and 500.156.
- Clause 500.080 been updated to reflect the change in all part of BS EN 62442 to BS EN IEC 62442.
- BS 4678-4 removed from Clauses 300.040, 300.050, 300.070 and 300.080 as it is withdrawn. These Clauses already refer to BS EN 50085 which has replaced it.
- Reference to BS 4678-4 corrected to BS EN 61439-6.
- Clause 500.210 updated to reflect BS EN IEC 61558-1 replaces BS EN 61558-1. Also BS EN 61558-2-4 should be referenced instead of BS EN 61558-2-9.
- Clause 500.220 updated to reflect BS EN IEC 61558-1 replaces BS EN 61558-1. Also BS EN 61558-2-5 should be referenced in addition.
- Clause 200.270 updated to reflect the fact that certain parts of BS EN IEC 63044 and BS EN 63044 have replaced some parts of BS EN 50491.
- Clause 800.150 updated to include for evacuation alert systems for use in flats, according to BS 8629.
- New Clause 820.217 added for evacuation alert systems for use in flats to BS 8629.

#### Telecommunications Networks - V91 (Self-contained Section)

- Clause 900.380 for mineral insulated cable set to pre-delete strikethrough as the cable type is rarely used.
- BS 4678-4 removed from Clauses 900.330, 900.340 and 900.350 as it is withdrawn. These Clauses already refer to BS EN 50085 which has replaced it.
- Clause 900.190 updated to reflect BS EN IEC 61558-1 replaces BS EN 61558-1. Also BS EN 61558-2-4 should be referenced instead of BS EN 61558-2-9.
- Clause 900.230 updated as BS EN IEC 62040-1 replaces BS EN 62040-1. In addition, added BS EN IEC 62040-2 EMC requirements for UPS.

#### Security Systems, AV Systems and Non-security Alarm Systems - V92 (Self-contained Section)

- Lock state contacts added to Clause 800.025, and updated references to relevant parts of BS EN 50131 series, PD CLC/TS 50131, and DD CLC/TS 50131-7 in this Clause.
- Clause 900.380 for mineral insulated cable set to pre-delete strikethrough as the cable type is rarely used.
- Clause 300.010 updated to reflect the fact that some parts of BS EN 62676-series have been renumbered BS EN IEC 62676, and that BS EN 50132-7 is withdrawn and replaced with BS EN 62676-4.
- Clause 320.020 updated to remove BS EN 50132-7, as it has been withdrawn, and add BS EN 62676-4 which replaces it.
- BS 4678-4 removed from Clauses 900.330, 900.340 and 900.350 as it is withdrawn. These Clauses already refer to BS EN 50085 which has replaced it.
- Clause 900.190 updated to reflect BS EN IEC 61558-1 replaces BS EN 61558-1. Also BS EN 61558-2-4 should be referenced instead of BS EN 61558-2-9.
- Clause 900.230 updated as BS EN IEC 62040-1 replaces BS EN 62040-1. In addition, added BS EN IEC 62040-2 EMC requirements for UPS.
- Replaced BS EN 50132 with BS EN 62676 which replaces it the series.

## Content Common to CAWS and BG 56 Based Specifications

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

#### Telecommunications - W10

Text added to Clause 310.030, clarifying selection of standards, and to align with Clause 300.010 of that work section.

#### Public Address / Sound Amplification - W12

- The code of practice for hearing-loop systems, PD IEC/TR 63079, is now included in Clauses 300.060 (for selection of a specialist supplier, and for design of the system), 300.070 (for site assessments), 300.080 (for treatment of electromagnetic interference) and 320.050 (for installation, commissioning and setting to work).
- Clause 300.010 has been updated to reflect the increased scope of BS 7827 to cover large public buildings and other venues in addition to sports stadiums.

#### Entertainment Systems - W20

References to relevant parts of BS EN 60728 / BS EN IEC 60728 / BS IEC 60728 updated in Clauses 300.010 and 300.060.

#### Data Transmission - W30

Aisle containment for IT cabinets to BS EN IEC 62966-1 added to Clause 310.060.

#### Access Control - W40

- New Clause 310.225 added for Security Fogging Devices to BS EN 50131-8:2019.
- Clause 300.080 for integration, control and monitoring, has been updated to require interfaces to comply as appropriate with relevant parts of BS 7273 following the publication of BS 7273-6.
- BS EN IEC 60730-2-12 added to 310.010 for electrically operated door locks.

#### Security Detection and Alarm - W41

- New Clause 310.225 added for Security Fogging Devices to BS EN 50131-8:2019.
- In Clause 300.050, BS EN 50132-5-3 has been replaced by BS EN 62676-3.
- New Clause 310.067 added for lock state contacts according to BS EN 50131-2-10. Lock state contacts are magnetically-operated contacts that provide information to the alarm system on the weather doors and/or windows are locked.
- PD CLC/TS 50134-9 for IP communication for social alarm systems added to clauses 300.050 and 310.390.
- Clause 300.050 updated to remove BS EN 50132-7, as it has been withdrawn. Clause already refers to BS EN IEC / BS EN 62676 series (BS EN 62676=4 replaces BS EN 50132-7).
- BS 8243 for design and installation of intruder and hold-up alarm systems designed to generate confirmed alarm conditions added to Clause 300.050, 310.290, 310.300 and 310.310.

#### Closed Circuit Television - W42

- In Clause 300.010, removed BS EN 50132-5-3 as it is withdrawn.
- Clause 300.010 updated to reflect the fact that some parts of BS EN 62676-series have been renumbered BS EN IEC 62676, and that BS EN 50132-7 is withdrawn and replaced with BS EN 62676-4.
- Clause 320.020 updated to remove BS EN 50132-7, as it has been withdrawn, and add BS EN 62676-4 which replaces it.

#### Fire Detection and Alarm - W50

- Clause 300.120 for integration, control and monitoring, has been updated to require interfaces to comply as appropriate with relevant parts of BS 7273 following the publication of BS 7273-6.
- New Clause 300.047 added for evacuation and alert systems for use in flats in accordance with BS 8629.
- Clauses 300.011 and 300.010 have been updated to account for design of evacuation alert systems for use in flats according to BS 8629.

## Content Common to CAWS and BG 56 Based Specifications

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

- Clause 320.040 updated to accommodate handover paperwork for evacuation alert systems for use in flats according to BS 8629.

#### LV Earthing and Bonding - W51

- Grades of alarm systems for dwellings have been updated to align with the changes in BS 5839-6:2019 in Clauses 300.010 and 300.011.
- Clause 300.120 has been updated to accommodate integration of fire alarm indications with social alarm systems in accordance with BS 5389-6:2019.

#### HV Earthing and Bonding - W56

Clauses 100.011 and 100.021 have been updated to refer to HMT 06-02 and HTM 06-03 in addition to HTM 06-01.

#### Central Controls / BMS - W60 and W69 (Self-contained Section)

- Clause 300.130 for integration, control and monitoring, has been updated to require interfaces to comply as appropriate with relevant parts of BS 7273 following the publication of BS 7273-6.
- Clause 330.340 Updated to reflect BS EN IEC 61558-1 supersedes BS EN 61558-1. Add also BS EN 61558-2-2 or BS EN 61558-2-6 in addition for this type of transformer. BS EN 61558-2-9 and BS EN 61558-2-23 removed as these are not the correct references.
- Clause 300.010 updated to reflect the fact that certain parts of BS EN IEC 63044 and BS EN 63044 have replaced some parts of BS EN 50491.
- Clauses W60:310.705, 310.710, 310.715 / 310.805 and W69:900.010, 900.020, 900.030 / 1000.010 for actuators, solenoids and motorised valves updated to include BS EN 1349, BS EN 50634 / BS EN IEC 60534 and BS EN IEC 60730-2-14
- BS EN IEC 62990-1 added to W60:310.546 and W69 800.070 for sensors for toxic gases
- W69: 1200.130 Updated to reflect BS EN IEC 61558-1 supersedes BS EN 61558-1. Add also BS EN 61558-2-2 or BS EN 61558-2-6 in addition for this type of transformer. BS EN 61558-2-9 and BS EN 61558-2-23 removed as these are not the correct reference.
- W69:200.010 updated to reflect the fact that certain parts of BS EN IEC 63044 and BS EN 63044 have replaced some parts of BS EN 50491.

#### Building Systems Integration - W61

Clause 320.010 for integration, control and monitoring, has been updated to require interfaces to comply as appropriate with relevant parts of BS 7273 following the publication of BS 7273-

#### Lifts - X10

- The following Clauses have been updated to remove references to BS EN 81-1 and BS EN 81-2, which have now been fully withdrawn (each has been replaced by both BS EN 81-20 and BS EN 81-50): 300.010, 300.050, 310.060, 310.030, 310.040, 310.041, 310.045, 310.050, 310.070, 310.090, 310.100, 310.120, 310.130, 310.140, 310.150, 310.160, 310.161, 310.170, 310.180, 310.190, 310,191, 310,220, 310.221, 310.230, 310.240, 310.260, 320.010.
- References to BS 8446-1 and BS 8446-2 have been replaced (because they only refer to BS EN 81-1 and BS EN 81-2) by references to other parts of BS 8446 in the following Clauses: 300.050, 300.060 & 320.260.
- New Clause 300.011 added for Electromagnetic Compatibility.
- New Clause 300.012 added for integration requirements to permit integration with systems such as fire detection and alarm, access control, personal attach alarm, security detection and alarm, etc. Clause includes interfaces to comply as appropriate with relevant parts of BS 5839 and BS 7273 following the publication of BS 7273-6.
- Clause 300.015 for refurbishment has been updated to permit improvement to resistance to vandalism in line with DD CEN/TS 81-83.
- Clauses 300.050 and 300.060 have been updated so that the list of standards provided in these Clauses is more easily comprehensible.

## Content Common to CAWS and BG 56 Based Specifications

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

- BS EN 81-31 (for accessible goods only lifts) and BS EN 81-73 (behaviour of lifts in the event of a fire) have been added to Clause 300.060, along with HTM 08-01 (acoustics) and HTM 08-02 (lifts).
- New Clause 320.040 added for quality control.

#### Lifts Pre-engineered - X19 (Self-contained Section)

- Interfaces for fire detection and alarm, access control, security detection and alarm, and building management, systems added to Clause 200.020.
- In Clause 200.030, safety requirements are also referred to relevant parts of BS EN 81, and BS EN 81-71 added for anti-vandal lift categories.
- References to BS 8446-1 and BS 8446-2 have been replaced (because they only refer to BS EN 81-1 and BS EN 81-2) by references to other parts of BS 8446 in Clause 200.040.
- BS 7255 has been added to Clause 200.055 for maintenance instructions.
- Clause 300.010 has been updated to remove reference to BS EN 81-2, as this has been withdrawn and replaced by BS EN 81-20 and BS EN 81-50 (which are already referenced in the Clause).
- Clause 200.020 for integration, control and monitoring, has been updated to require interfaces to comply as appropriate with relevant parts of BS 7273 following the publication of BS 7273-6.
- Clause 200.040 updated to include for testing to additional parts of BS 8486.

#### Escalators - X11

BS ISO 8102-6 for safety of programmable systems added to Clause 310.220.

#### Moving Pavements - X12

BS ISO 8102-6 for safety of programmable systems added to Clause 310.220.

#### Cranes - X21

- Clause 310.380 updated to reflect BS EN IEC 61558-1 supersedes BS EN 61558-1. Also, added BS EN 61558-2-2 or BS EN 61558-2-6 as one or the other to be used in conjunction with BS EN IEC 61558-1 for this type of transformer.
- General update of work section to remove a number of withdrawn / wrong standards including: BS 466, BS 2452, BS 449, BS ISO 1834, BS 4, BS EN 13674, BS EN 50149.
- Some clauses amended to say "relevant parts of BS 7121".

#### Travelling Cradles - X22

- BS 4678-4 has been withdrawn. References to this standard replaced by references to relevant parts of BS EN 50085 in Clauses 320.040 and 320.070. Requirements for mechanical strength and have been aligned with BS EN 50085 accordingly in Clause 320.040.
- Clauses 330.220 and 330.230 updated to reflect BS EN IEC 61558-1 supersedes BS EN 61558-1. Additionally, in Clause 330.230, BS EN 61558-2-5 has been added.

#### Ductwork and Ancillaries - Y30 / Z Part 2

New clause 230.061 added for non-metallic ductwork to BS EN 17192.

#### Air Filtration - Y42

Withdrawn parts of BS EN 1822 (Parts 2-5) replaced with corresponding parts of BS EN ISO 29463 in 2070#, 2070A, 2070B, 2070C.

#### Grilles and Diffusers - Y46 / Z Part 2 246.xxx series

- General update of Part 2 clauses 246.010, 246.020, 246.030 and 246.040 and the following Y46 reference clauses: 1010, 1020, 1030, 1035, 1040, 2010#, 2020A, 2030A, 2040A, 2050A, 2060A, 2080A, 2080B, 2090A, 2110#, 2110A, 2130B, 2140A, 2140B, 2160, 2170B, 2180, 2185, 4010, 4050A. The updates include:
  - Addition of aerodynamic testing standards BS EN 12238, BS EN 12239 and BS EN 16445, for mixed flow, and low velocity for displacement applications.
- New Y reference clauses:
  - 2042 for security grilles

## Content Common to CAWS and BG 56 Based Specifications

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

- 2070E for acoustic type transfer grille to reduce cross talk
- 2090B for high induction barrel slot type diffusers
- 2140C for jet type nozzle with swirl unit
- 2140D for jet diffuser with reversible / rotatable core
- 2172A for circular swirl floor mounted displacement diffusers
- 2174A for wall or free standing low velocity displacement diffusers
- 2174B for floor mounted low velocity displacement diffusers
- The following Y reference clauses are deleted to better align with the general update of Part 2 clauses / new Y reference clauses:
  - 2060# & 2080C (circular diffusers – core adjustment)
  - 2120# & 2120A (adjustable curved blade removable inner core type)
  - 2140# (punch louvre type diffuser)
  - 2170# & 2170A (high induction diffusers)

#### Grilles and Diffusers - B20, T41, U19 & U39 (Self-contained Sections)

- General update of the following clauses to align with updates to the Y46 / 246.xxx clauses above:
  - U19:200.080 (aerodynamic testing standards – grilles and diffusers)
  - U19:300.080 & 300.090 (standards associated with louvre testing)
  - U39:200.080 (aerodynamic testing standards – grilles and diffusers)
  - U39:500.080 & 500.090 (standards associated with louvre testing)
  - B20:600.212 and 700.306 (aerodynamic testing standards – grilles and diffusers)
  - B20:600.307 (standards associated with louvre testing)
  - T41:500.075 (aerodynamic testing standards – grilles and diffusers).

#### Conduit and Cable Trunking - Y60

- BS 4678-4 has been withdrawn. References to this standard replaced by references to relevant parts of BS EN 50085 in Clauses 2130#, 2130A, 2130B, 2130C, and 2140# and 2140A. Requirements for mechanical strength and temperature have been aligned with BS EN 50085 accordingly in these clauses.
- Changed "BS EN 61386" to read "relevant parts of BS EN 61386" in Clauses 2010#, 2010A, 2010B, 2010C, 2010D, 2010E, 2010F, 2080#, 2080A, 2090#, 2090A, 2090B, 2090E, 2090F.
- Improved references to standards BS EN 60085 in Clauses 2080#, 2080A, 2090#, 2080A, 2090B, 2090E, 2090F, 2100#, 2100A.
- Improved references to BS EN 50174 in Clauses 2110#, 2110A and 3030.

#### Cables and Wiring - Y61

- Minor errors corrected in Clauses 2005 and 2010#.
- Clause 2090# extensively updated with relevant references to BS EN 60794-series and BS EN IEC 60794-series. Full descriptions of standards included to assist the specifying engineer
- Clause 2090A updated to reflect the fact that BS EN IEC 60794-2-11 has superseded BS EN 60794-2-11.

#### LV Switchgear and Distribution Boards - Y71

- New clause 2247 added for automatic reclosing devices for household and similar use, according to BS EN 63024.
- Clauses 2230# and 2230A updated to permit the specification of miniature circuit breakers for DC use, as well as AC. The Clauses refer now to relevant parts of BS EN 60898, i.e. AC circuit breakers to BS EN 60898-1 or BS EN 60898-2, and DC circuit breakers to BS EN 60898-2 or BS EN 60898-3.

## Content Common to CAWS and BG 56 Based Specifications

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

#### Contactors and Starters - Y72

- Clause 2220 updated to reflect the fact that BS EN IEC 61558-1 supersedes BS EN 61558-1. Also, added BS EN 61558-2-6 as an alternative option for this type of transformer.
- Clause 2255# updated to reflect some parts of BS EN 61158 have been superseded by the same part of BS EN IEC 61158.

#### Accessories for Electrical Services - Y74

Clauses 2180# and 2180A updated to reflect the fact that BS EN IEC 61558-1 supersedes BS EN 61558-1.

#### Z Part 2

- Clause 261.200 updated to replace BS EN 61169-24 with the standard which supersedes it, BS EN IEC 61169-24.
- Automatic reclosing devices added as an option in Clause 271.190.



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			
V13	C2.1.40	Photovoltaic Modules and Storage Sub-System	U	Updated to reflect ENA Engineering Recommendations G83 and G59 being replaced by G98, G99 and G100; and to include BS EN 61853 / BS EN IEC 61853 series and BS HD 60364-8-2

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			
A13, X10	A1.4, BG56 B6, C3.1.10		New Addition	Health Technical Memorandum 08-01: Acoustics
A13	A1.4		Amendment 1	BS 4142:2014+A1:2019 Methods for rating and assessing industrial and commercial sound
A13, A64, S33, W50, W51, Y41, Y61, Y92	A1.4, C1.3.20, C2.5.10, C2.1.100, D1.4.460, D2.6.20, D4.30	BS EN 60079-15:2010 Explosive atmospheres. Equipment protection by type of protection "n"	Withdrawn, superseded	BS EN IEC 60079-15:2019 Explosive atmospheres. Equipment protection by type of protection "n"
A13, A31, A33, A37, A64, B20, N11, P30, S12, S16, S61, S62, S65, T15, T19, T32, T41, T69, T71, U13, U19, U39, V10, V13, V14, V21, V22, V30, V31, V32, V33, V34, V35, V40, V50, V51, V90, V91, V92, W10, W11, W12, W14, W15, W20, W21, W22, W23, W30, W40, W41, W42, W50, W51, W52, W53, W54, W56, W60, W61, W69, W70, X10, X19, X21, X22, Y24, Y30,	A1.4, A3.2, A3.4, A3.8, C5.20, C1.2.60, C1.6.20, C1.6.30, C1.6.60, C1.2.21, C1.4.100, C1.4.410, C1.4.210, C2.1.10, C2.1.40, C2.1.50, C2.2.10, C2.1.65, C2.1.70, C2.1.80, C2.1.90, C2.1.150, C2.1.160, C2.1.170, C2.2.20, C1.4.160, C1.4.170, C2.3.10, C2.3.40, C2.3.50, C2.3.60, C2.3.70, C2.3.80, C2.3.90,		Corrigendum	BS 7671:2018+CORRI:2018 Requirements for Electrical Installations. IET Wiring Regulations

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			
Y60, Y61, Y62, Y63, Y71, Y72, Y73, Y74, Y80, Y81, Y82	C2.3.100, C2.3.110, C2.3.20, C2.4.10, C2.4.20, C2.4.30, C2.5.10, C2.1.100, C2.1.130, C2.1.140, C2.5.20, C2.1.110, C1.7.10, C1.7.20, C2.3.30, C3.1.10, C3.2.20, C3.2.30, D1.8.50, D1.4.510, D2.6.10, D2.6.20, D2.6.30 D2.6.30, D2.6.40, D2.6.50, D2.6.60, D2.2.50, D2.6.70, D2.1.120, D2.8.10, D2.7.20			
A13, Z Part 2	A1.4, C1.4.480		New Addition	BS EN 16798-1:2019 Energy performance of buildings. Ventilation for buildings. Indoor environmental input parameters for design and assessment of energy performance of buildings addressing indoor air quality, thermal environment, lighting and acoustics. Module M1-6
A13, A64, S33, W50, W51, Y41,	A1.4, C1.3.20, C2.5.10, C2.1.100,	BS EN 60079-15:2010	Withdrawn, Superseded	BS EN IEC 60079-15:2019 Explosive atmospheres. Equipment protection by

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			
Y61, Y73, Y92	D1.4.460, D2.6.20, D2.2.50, D4.30	Explosive atmospheres. Equipment protection by type of protection "n"		type of protection "n"
A33, A64	A3.4, BG56 B5		New Addition	BS 8313:1997 Code of practice for accommodation of building services in ducts
A33, A64	A3.4		New Addition	BS 8560:2012 Code of practice for the design of buildings incorporating safe work at height
A33, A64	A3.4		New Addition	BS 8580-1:2019 Water quality. Risk assessments for Legionella control. Code of practice
A37, A64, B20, S60, S61, S62, S63, S64, S65, S70, S71, S72, S73, U13, U14, V40, V90, W12, W40, W50, W60, W61, X10, X19, Y81	A3.8, C1.6.10, C1.6.20, C1.6.30, C1.6.40, C1.6.50, C1.6.60, C1.6.70, C1.6.80, C1.6.90, B8.6.100, C1.4.210, C1.4.220, C2.2.20, C2.3.50, C2.4.10, C2.5.10, C1.7.10, C1.7.20, C3.1.10, D2.8.10	BS 5839-6:2013 Fire detection and fire alarm systems for buildings. Code of practice for the design, installation, commissioning and maintenance of fire detection and fire alarm systems in domestic premises	Withdrawn, superseded	BS 5839-6:2019 Fire detection and fire alarm systems for buildings. Code of practice for the design, installation, commissioning and maintenance of fire detection and fire alarm systems in domestic premises
B20, P30, S40, S41, T10, T32, T40, T41, T42, Y51	C1.3.30, C1.3.40, C1.4.30, C1.4.140, C1.4.150, D1.10.20	BS 5410-1:2014 Code of practice for oil firing. Installations up to 45 kW output capacity for space heating and hot water supply purposes	Withdrawn, superseded	BS 5410-1:2019 Code of practice for liquid fuel firing. Installations for space heating and hot water supply purposes for domestic buildings
B20, S12, S32, S33,	C1.3.10,		Amendment 1	BS 6891:2015+A1:2019 Specification for the

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			
T10, T32, T41	C1.3.20, C1.4.30			installation and maintenance of low pressure gas installation pipework of up to 35 mm (R114) on premises
B20, N13, R11, R19, S32, T32, T41, Z Part 2	C5.40, C1.1.20, C1.3.10, C1.8.20	BS EN 33:2011 WC pans and WC suites. Connecting dimensions	Withdrawn, Superseded	BS EN 33:2019 WC pans and WC suites. Connecting dimensions
B20, X10, X19	C3.1.10		New Addition	BS EN 81-31:2010 Safety rules for the construction and installation of lifts. Lifts for the transport of goods only. Accessible goods only lifts
B20, X10, X19	C3.1.10	BS EN 81-58:2003 Safety rules for the construction and installation of lifts. Examination and tests. Landing doors fire resistance test	Withdrawn, Superseded	BS EN 81-58:2018 Safety rules for the construction and installation of lifts. Examination and tests. Landing doors fire resistance test
B20, X10, X19	C3.1.10	BS EN 81-71:2005 Safety rules for the construction and installation of lifts. Particular applications to passenger lifts and goods passenger lifts. Vandal resistant lifts	Withdrawn, Superseded	BS EN 81-71:2018 Safety rules for the construction and installation of lifts. Particular applications to passenger lifts and goods passenger lifts. Vandal resistant lifts
B20, X10, X19	C3.1.10	BS EN 81-77:2013 Safety rules for the construction and installations of lifts. Particular applications for passenger and goods passenger lifts. Lifts subject to seismic conditions	Withdrawn, Superseded	BS EN 81-77:2018 Safety rules for the construction and installations of lifts. Particular applications for passenger and goods passenger lifts. Lifts subject to seismic conditions
B20, X10, X19	C3.1.10	BS EN 81-80:2003 Safety rules for the construction and installation of lifts. Existing lifts. Rules for the improvement of	Withdrawn, Superseded	BS EN 81-80:2019 Safety rules for the construction and installation of lifts. Existing lifts. Rules for the improvement of safety of existing

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			
		safety of existing passenger and goods passenger lifts		passenger and goods passenger lifts
B20, T32, Y11, Z Part 2	D1.8.20, C1.8.20	BS EN 215:2004 Thermostatic radiator valves. Requirements and test methods	Withdrawn, Superseded	BS EN 215:2019 Thermostatic radiator valves. Requirements and test methods
B20, T10, T11, T16, T32	C1.4.30, C1.4.40, C1.4.90	BS EN 303-6:2000 Heating boilers. Heating boilers with forced draught burners. Specific requirements for the domestic hot water operation of combination boilers with atomizing oil burners of nominal heat input not exceeding 70 kW	Withdrawn, Superseded	BS EN 303-6:2019 Heating boilers. Heating boilers with forced draught burners. Specific requirements for the domestic hot water operation and energy performance of water heaters and combination boilers with atomizing oil burners of nominal heat input not exceeding 70 kW
B20, N13, R11, R19	C5.40, C1.1.20,	BS EN 997:2012+A1:2015 WC pans and WC suites with integral trap	Withdrawn, Superseded	BS EN 997:2018 WC pans and WC suites with integral trap
B20, R10, R19, V21, Y10, Z Part 2	C1.1.10, B8.9.10, D1.8.10, C1.8.10	BS EN 1519-1:2000 Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure. Polyethylene (PE). Specifications for pipes, fittings and the system	Withdrawn, Superseded	BS EN 1519-1:2019 Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure. Polyethylene (PE). Requirements for pipes, fittings and the system
B20			New Addition	BS 7593:2019 Code of practice for the preparation, commissioning and maintenance of domestic central heating and cooling water systems
B20, V40, V41, V90, X22, Y73, Y81	C2.2.20, C2.2.30, C3.2.30, D2.2.50, D2.8.10		New Addition	BS EN 13032-5:2018 Light and lighting. Measurement and presentation of photometric data of lamps and luminaires. Presentation of data for luminaires used for road

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			
				lighting
B20, S12, T11, T13, T16, T19, T32, T41, T69, U13, U14, U19, U39, Y30	C1.4.40, C1.4.60, C1.4.90, C1.4.100, C1.4.210, C1.4.220, D1.4.510		New Addition	BS EN 1366-13:2019 Fire resistance tests for service installations. Chimneys
B20, U10, Y51	C1.4.180, D1.10.20	BS EN 14134:2004 Ventilation for buildings. Performance testing and installation checks of residential ventilation systems	Withdrawn, Superseded	BS EN 14134:2019 Ventilation for buildings. Performance measurement and checks for residential ventilation systems
B20, V90, V91, X22, Y61	C3.2.30, D2.6.20	BS EN 50117-2-1:2005+A2:2013 Coaxial cables. Sectional specification for cables used in cabled distribution networks. Indoor drop cables for systems operating at 5 MHz-1000 MHz	Withdrawn, Superseded	BS EN 50117-1:2019 Coaxial cables. Generic specification
		BS EN 50117-2-2:2004+A2:2013 Coaxial cables. Sectional specification for cables used in cabled distribution networks. Outdoor drop cables for systems operating at 5 MHz-1000 MHz		
		BS EN 50117-2-3:2004+A2:2013 Coaxial cables. Sectional specification for cables used in cabled distribution networks. Distribution and trunk cables for systems operating at 5 MHz - 1000 MHz		
		BS EN 50117-2-4:2004+A2:2013 Coaxial cables. Sectional specification for cables used in cabled		

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			
		<p>distribution networks. Indoor drop cables for systems operating at 5 MHz-3000 MHz</p> <p>BS EN 50117-2-5:2004+A2:2013 Coaxial cables. Sectional specification for cables used in cabled distribution networks. Outdoor drop cables for systems operating at 5 MHz-3000 MHz</p>		
B20, V90, V91, X22, Y61	C3.2.30, D2.6.20		New Addition	BS EN 50117-9-1:2019 Coaxial cables. Sectional specification for coaxial cables for analogue and digital signal transmission. Indoor drop cables for systems operating at 5 MHz - 1 000 MHz
B20, V90, V91, X22, Y61	C3.2.30, D2.6.20	BS EN 50117-4-1:2008+A1:2013 Coaxial cables. Sectional specification for cables for BCT cabling in accordance with EN 50173. Indoor drop cables for systems operating at 5 MHz - 3 000 MHz	Withdrawn, Superseded	BS EN 50117-9-2:2019 Coaxial cables. Sectional specification for coaxial cables for analogue and digital signal transmission. Indoor drop cables for systems operating at 5 MHz - 3 000 MHz
B20, V90, V91, X22, Y61	C3.2.30, D2.6.20	BS EN 50117-4-2:2015 Coaxial cables. Sectional specification for CATV cables up to 6 GHz used in cabled distribution networks	Withdrawn, Superseded	BS EN 50117-9-3:2019 Coaxial cables. Sectional specification for coaxial cables for analogue and digital signal transmission. Indoor drop cables for systems operating at 5 MHz - 6 000 MHz
B20, V90, V91, X22, Y61	C3.2.30, D2.6.20		New Addition	BS EN 50117-10-1:2019 Coaxial cables. Sectional specification for coaxial cables for analogue and digital signal transmission. Outdoor drop cables for systems



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			
				operating at 5 MHz - 1 000 MHz
B20, V90, V91, X22, Y61	C3.2.30, D2.6.20		New Addition	BS EN 50117-10-2:2019 Coaxial cables. Sectional specification for coaxial cables for analogue and digital signal transmission. Outdoor drop cables for systems operating at 5 MHz - 3 000 MHz
B20, V90, V91, X22, Y61	C3.2.30, D2.6.20		New Addition	BS EN 50117-11-1:2019 Coaxial cables. Sectional specification for coaxial cables for analogue and digital signal transmission. Distribution and trunk cables for systems operating at 5 MHz - 1 000 MHz
B20, V90, V91, X22, Y61	C3.2.30, D2.6.20		New Addition	BS EN 50117-11-2:2019 Coaxial cables. Sectional specification for coaxial cables for analogue and digital signal transmission. Distribution and trunk cables for systems operating at 5 MHz - 2 000 MHz
B20, N11, U10	C5.20, C1.4.180	BS EN 13141-1:2004 Ventilation for buildings. Performance testing of components/products for residential ventilation. Externally and internally mounted air transfer devices	Withdrawn, Superseded	BS EN 13141-1:2019 Ventilation for buildings. Performance testing of components/products for residential ventilation. Externally and internally mounted air transfer devices
B20, V90, V91, V92, Y61	D2.6.20	BS EN 13501-6:2014 Fire classification of construction products and building elements. Classification using data from reaction to fire tests on electric cables	Withdrawn, Superseded	BS EN 13501-6:2018 Fire classification of construction products and building elements. Classification using data from reaction to fire tests on power, control and communication cables
B20, N11	C5.20	BS 8303-1:1994 Installation of domestic heating and cooking	Withdrawn, Superseded	BS 8303:2018 Installation of domestic heating and cooking

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			
		<p>appliances burning solid mineral fuels. Installation of domestic heating and cooking appliances burning solid mineral fuels. Specification for the design of installations</p> <p>BS 8303-2:1994 Installation of domestic heating and cooking appliances burning solid mineral fuels. Installation of domestic heating and cooking appliances burning solid mineral fuels. Specification for installing and commissioning on site</p> <p>BS 8303-3:1994 Installation of domestic heating and cooking appliances burning solid mineral fuels. Recommendations for design and on site installation</p>		<p>appliances burning wood and solid mineral fuels. Specification</p>
B20, V90, V91, V92, W12, X22, Y61	C2.3.50, C3.2.30, D2.6.20	<p>BS EN 60702-2:2002+A1:2015 Mineral insulated cables and their terminations with a rated voltage not exceeding 750 V. Terminations</p>	Withdrawn, Superseded	<p>BS EN 60702-2:2002+A1:2015, IEC 60702-2:2002+A1:2015 Mineral insulated cables and their terminations with a rated voltage not exceeding 750 V. Terminations</p>
B20, V90, V91, V92, W20	C2.3.80	<p>BS EN 60728-5:2008 Cable networks for television signals, sound signals and interactive services. Headend equipment</p>	Withdrawn, Superseded	<p>BS EN 60728-5:2016 Cable networks for television signals, sound signals and interactive services. Headend equipment</p>
B20, V90, V91, V92, W12, W20, Y74	C3.2.30, C2.3.80, D2.6.70	<p>BS EN 60728-11:2017 Cable networks for television signals, sound signals and interactive services. Safety</p>	Withdrawn, Superseded	<p>BS EN 60728-11:2017+A11:2018 Cable networks for television signals, sound signals and interactive services. Safety</p>

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, V90, V91, V92, W20	C2.3.80	BS EN 60728-13-1:2012 Cable networks for television signals, sound signals and interactive services. Bandwidth expansion for broadcast signal over FTTH system	Withdrawn, Superseded	BS EN 60728-13-1:2017 Cable networks for television signals, sound signals and interactive services. Bandwidth expansion for broadcast signal over FTTH system
B20, V90, V91, V92, W20	C2.3.80		New Addition	BS EN 60728-101:2017 Cable networks for television signals, sound signals and interactive services. System performance of forward paths loaded with digital channels only
B20, V30, V31, V32, V33, V90, V91, V92, X22, Y71, Y73	C2.1.70, C2.1.80, C2.1.90, C2.1.150, C3.2.30, D2.6.50, D2.2.50	BS EN 60898-1:2003+A13:2012 Medical electrical equipment. Particular requirements for the basic safety and essential performance of X-ray tube assemblies for medical diagnosis	Withdrawn, Superseded	BS EN 60898-1:2019 Electrical accessories. Circuit-breakers for overcurrent protection for household and similar installations. Circuit-breakers for a.c. operation
B20			New Addition	BS EN IEC 60665:2019 A.C. ventilating fans and regulators for household and similar purposes. Methods for measuring performance
B20, T10, T15, T32, V51, W40, W60	C1.4.30, C1.2.21, C1.4.170, C2.4.10, C1.7.10		New Addition	BS EN IEC 60730-2-12:2019 Automatic electrical controls. Particular requirements for electrically operated door locks
B20, T10, T15, T32, V51, W60, W69	C1.4.30, C1.2.21, C1.4.170, C2.4.10, C1.7.10		New Addition	BS EN IEC 60730-2-14:2019 Automatic electrical controls. Particular requirements for electric actuators
B20, V90, Y73	D2.2.50	BS EN 62442-1:2011+A11:2017 Energy performance of lamp controlgear. Controlgear for	Current, Superseded	BS EN IEC 62442-1:2018 Energy performance of lamp controlgear. Controlgear for fluorescent lamps.

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			
		fluorescent lamps. Method of measurement to determine the total input power of controlgear circuits and the efficiency of the controlgear		Method of measurement to determine the total input power of controlgear circuits and the efficiency of controlgear
B20, V90, Y73	D2.2.50	BS EN 62442-2:2014+A11:2017 Energy performance of lamp controlgear. Controlgear for high intensity discharge lamps (excluding fluorescent lamps). Method of measurement to determine the efficiency of the controlgear	Current, Superseded	BS EN IEC 62442-2:2018 Energy performance of lamp controlgear. Controlgear for high intensity discharge lamps (excluding fluorescent lamps). Method of measurement to determine the efficiency of controlgear
B20, S30, T10, T11, T14, T16, T32, T60, T69, U60, Y11, Y23, Z Part 2	C1.5.10, C1.4.30, C1.4.40, C1.4.70, C1.4.90, C1.4.380, C1.4.350, D1.8.20, D1.2.22, C1.8.20		Amendment 2	BS EN ISO 4126-1:2013+A2:2019 Safety devices for protection against excessive pressure. Safety valves
B20, V92, W41	C2.4.20	DD CLC/TS 50131-7:2008 Alarm systems. Intrusion and hold-up systems. Application guidelines	Withdrawn, Superseded	DD CLC/TS 50131-7:2010 Alarm systems. Intrusion and hold-up systems. Application guidelines
B20, V92			New Addition	PD CLC/TS 50131-12:2016 Alarm systems. Intrusion and hold-up systems. Methods and requirements for setting and unsetting of Intruder Alarm Systems (IAS)
B20, V92			New Addition	PD CLC/TS 50131-2-11:2017 PD CLC/TS 50131-2-11 Alarm systems - Intrusion and hold-up systems.

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			
				Part 2-11: Intrusion detectors - ALDDR
N10	C5.10	BS 7863:2009 Recommendations for colour coding to indicate the extinguishing media contained in portable fire extinguishers	Withdrawn, Superseded	BS 5306-10:2019 Fire extinguishing installations and equipment on premises. Colour coding to indicate the extinguishing medium contained in portable fire extinguishers. Code of practice
N13	C5.40		New Addition	BS EN 12764:2015+A1:2018 Sanitary appliances. Specification for whirlpool baths
N13	C5.40		New Addition	BS EN 13407:2015+A1:2018 Wall-hung urinals. Functional requirements and test methods
N13	C5.40		New Addition	BS EN 14055:2018 WC and urinal flushing cisterns
N13, S12	C5.40		Amendment 1	BS EN 14428:2015+A1:2018 Shower enclosures. Functional requirements and test methods
N13	C5.40		Amendment 1	BS EN 14516:2015+A1:2018 Baths for domestic purposes
N13	C5.40		New Addition	BS EN 14527:2016+A1:2018 Shower trays for domestic purposes
N13	C5.40		New Addition	BS EN 14528:2015+A1:2018 Bidets. Functional requirements and test methods
R12	C1.1.30		New Addition	BS EN 15885:2018 Classification and characteristics of techniques for renovation, repair and

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			
				replacement of drains and sewers
R12, R20	C1.1.30, C1.1.60	BS EN ISO 11296-7:2013 Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks. Lining with spirally-wound pipes	Withdrawn, Superseded	BS EN ISO 11296-7:2019 Plastics piping systems for renovation of underground non-pressure drainage and sewerage networks. Lining with spirally-wound pipes
R12, Z Part 2	C1.8.10		New Addition	BS ISO 4427-1:2019 Plastics piping systems for water supply and for drainage and sewerage under pressure. Polyethylene (PE). General
R12, Z Part 2	C1.8.10		New Addition	BS ISO 4427-2:2019 Plastics piping systems for water supply, and for drainage and sewerage under pressure. Polyethylene (PE). Pipes
R12, Z Part 2	C1.8.10		New Addition	BS ISO 4427-3:2019 Plastics piping systems for water supply, and for drainage and sewerage under pressure. Polyethylene (PE). Fittings
R12, Z Part 2	C1.8.10		New Addition	BS ISO 4427-5:2019 Plastics piping systems for water supply, and for drainage and sewerage under pressure. Polyethylene (PE). Fitness for purpose of the system
R30, S30, T19, U70, V10, V31, X30, X31, X32, Y92, Z Part 2	C1.1.80, C1.5.10, C1.4.100, C1.4.430, C2.1.10, C2.1.80, C3.2.50, C3.2.60, C3.2.70,	BS 4999-105:1988, EN 60034-5:1986 General requirements for rotating electrical machines. Classification of degrees of protection provided by enclosures for rotating machinery	Withdrawn, superseded	BS EN 60034-5:2001, IEC 60034-5:2000 Rotating electrical machines. Degrees of protection provided by the integral design of rotating electrical machines (IP code). Classification

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			
	D4.30, C1.8.40, C1.4.460			
S11, S12	C1.2.20		New Addition	BS EN 15332:2019 Heating boilers. Energy assessment of hot water storage tanks
S11, T14	C1.2.20, C1.4.70		New Addition	BS EN 12102-2:2019 Air conditioners, liquid chilling packages, heat pumps, process chillers and dehumidifiers with electrically driven compressors. Determination of the sound power level. Heat pump water heaters
S11, T14	C1.2.20, C1.4.70		New Addition	BS ISO 19967-1:2019 Heat pump water heaters. Testing and rating for performance. Heat pump water heater for hot water supply
S11, T14	C1.2.20, C1.4.70		New Addition	BS ISO 19967-2:2019 Heat pump water heaters. Testing and rating for performance. Heat pump water heaters for space heating
S11, S16, S30, S33, S51, T10, T11, T12, T13, T14, T15, T16, T19, T20, T30, T33, T60, T61, Z Part 2	C1.2.20, C1.2.60, C1.5.10, C1.3.20, C1.5.50, C1.4.30, C1.4.40, C1.4.50, C1.4.60 C1.4.70, C1.2.21, C1.4.90, C1.4.100, C1.4.110, C1.4.20, C1.4.130, C1.4.380, C1.4.385, C1.4.120	PD 5500:2015+A3:2017 Specification for unfired fusion welded pressure vessels	Withdrawn, Superseded	PD 5500:2018+A2:2019 Specification for unfired fusion welded pressure vessels

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			
S12, T10, T13, T32	C1.4.30, C1.4.60		Withdrawn, Superseded	BS EN 1443:2019 Chimneys. General requirements
S12, T32, U19, U34, X10, X19, Z Part 2	C3.1.10, C1.10.20		New Addition	BS EN ISO 16032:2004 Acoustics. Measurement of sound pressure level from service equipment in buildings. Engineering method
S30, Y46	C1.5.10, D1.4.520	BS EN 755-1:2008 Aluminium and aluminium alloys. Extruded rod/bar, tube and profiles. Technical conditions for inspection and delivery	Withdrawn, Superseded	BS EN 755-1:2016 Aluminium and aluminium alloys. Extruded rod/bar, tube and profiles. Technical conditions for inspection and delivery
S30, Y46	C1.5.10, D1.4.520	BS EN 755-2:2013 Aluminium and aluminium alloys. Extruded rod/bar, tube and profiles. Mechanical properties	Withdrawn, Superseded	BS EN 755-2:2016 Aluminium and aluminium alloys. Extruded rod/bar, tube and profiles. Mechanical properties
S30, Y46	C1.5.10, D1.4.520	BS EN 755-7:2008 Aluminium and aluminium alloys. Extruded rod/bar, tube and profiles. Seamless tubes, tolerances on dimensions and form	Withdrawn, Superseded	BS EN 755-7:2016 Aluminium and aluminium alloys. Extruded rod/bar, tube and profiles. Seamless tubes, tolerances on dimensions and form
S30, Y46	C1.5.10, D1.4.520	BS EN 755-8:2008 Aluminium and aluminium alloys. Extruded rod/bar, tube and profiles. Porthole tubes, tolerances on dimensions and form	Withdrawn, Superseded	BS EN 755-8:2016 Aluminium and aluminium alloys. Extruded rod/bar, tube and profiles. Porthole tubes, tolerances on dimensions and form
S30, Y46	C1.5.10, D1.4.520	BS EN 755-9:2008 Aluminium and aluminium alloys. Extruded rod/bar, tube and profiles. Profiles, tolerances on dimensions and form	Withdrawn, Superseded	BS EN 755-9:2016 Aluminium and aluminium alloys. Extruded rod/bar, tube and profiles. Profiles, tolerances on dimensions and form
S30	C1.5.10		New Addition	BS ISO 6301-2:2018 Pneumatic fluid power. Compressed-air lubricators. Test methods



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			
				to determine the main characteristics to be included in supplier's literature
S30	C1.5.10	BS ISO 8573-2:2007 Compressed air. Test methods for oil aerosol content	Withdrawn, Superseded	BS ISO 8573-2:2018 Compressed air. Contaminant measurement. Oil aerosol content
S30	C1.5.10	BS ISO 8573-4:2001 Compressed air. Test methods for solid particle content	Withdrawn, Superseded	BS ISO 8573-4:2019 Compressed air. Contaminant measurement. Particle content
S32	C1.3.10		New Addition	BS EN 14382:2019 Gas safety shut-off devices for inlet pressure up to 10 MPa (100 bar)
S32	C1.3.10	BS EN 334:2005+A1:2009 Gas pressure regulators for inlet pressures up to 100 bar	Withdrawn, Superseded	BS EN 334:2019 Gas pressure regulators for inlet pressure up to 10 MPa (100 bar)
S33	C1.3.20	BS EN 13175:2014 LPG Equipment and accessories. Specification and testing for Liquefied Petroleum Gas (LPG) pressure vessel valves and fittings	Withdrawn, Superseded	BS EN 13175:2019 LPG Equipment and accessories. Specification and testing for Liquefied Petroleum Gas (LPG) pressure vessel valves and fittings
S33	C1.3.20	BS EN 16125:2015 LPG Equipment and Accessories. Pipework systems and supports. LPG in liquid phase and vapour pressure phase	Withdrawn, Superseded	BS EN 16125:2019 LPG Equipment and Accessories. Pipework systems and supports. LPG in liquid phase and vapour pressure phase
S33	C1.3.20		New Addition	BS EN 16436-2:2018 Rubber and plastics hoses, tubing and assemblies for use with propane and butane and their mixture in the vapour phase. Assemblies
S33	C1.3.20	BS EN ISO 15995:2010 Gas cylinders. Specifications and testing of LPG cylinder	Withdrawn, Superseded	BS EN ISO 15995:2019 Gas cylinders. Specifications and testing of LPG cylinder valves.

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			
		valves. Manually operated		Manually operated
S34	C1.5.30		New Addition	Clauses in accordance with BCGA codes of practice for laboratory / industrial gas installations, added
S34	C1.5.30		New Addition	BS EN 61511-3:2017 Functional safety. Safety instrumented systems for the process industry sector. Guidance for the determination of the required safety integrity levels
S34	C1.5.30		New Addition	BS EN ISO 10524-1:2019 Pressure regulators for use with medical gases. Pressure regulators and pressure regulators with flow-metering devices
S34	C1.5.30		New Addition	BS EN ISO 10524-2:2019 Pressure regulators for use with medical gases. Manifold and line pressure regulators
S34	C1.5.30		New Addition	BS EN ISO 10524-3:2019 Pressure regulators for use with medical gases. Pressure regulators integrated with cylinder valves (VIPRs)
S34	C1.5.30		New Addition	BS EN ISO 10524-4:2008 Pressure regulators for use with medical gases. Low-pressure regulators
S61, S62, S63, S64, S65, S70, S71, S72, S73, U13, U14, V40, W40, W50, W60, W61, X10, X19	C1.6.20, C1.6.30, C1.6.40, C1.6.50, C1.6.60, C1.6.70, C1.6.80, C1.6.90, B8.6.100, C1.4.210, C1.4.220, C2.2.20		New Addition	BS 7273-6:2019 Code of practice for the operation of fire protection measures. Fire detection and fire alarm systems. Interface with ancillary systems and equipment

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			
S51	C1.5.50		New Addition	BS EN 285:2015 Sterilization. Steam sterilizers. Large sterilizers
S64, S73	C1.6.50, B8.6.100		New Addition	BS EN 12259-9:2019 Fixed firefighting systems. Components for sprinkler and water spray systems. Deluge alarm valves
S70, S72	C1.6.70, C1.6.90	BS EN ISO 9809-1:2010 Gas cylinders. Refillable seamless steel gas cylinders. Design, construction and testing. Quenched and tempered steel cylinders with tensile strength less than 1100 MPa	Withdrawn, Superseded	BS EN ISO 9809-1:2019 Gas cylinders. Design, construction and testing of refillable seamless steel gas cylinders and tubes. Quenched and tempered steel cylinders and tubes with tensile strength less than 1 100 MPa
S70, S72	C1.6.70, C1.6.90	BS EN ISO 9809-2:2010 Gas cylinders. Refillable seamless steel gas cylinders. Design, construction and testing. Quenched and tempered steel cylinders with tensile strength greater than or equal to 1100 MPa	Withdrawn, Superseded	BS EN ISO 9809-2:2019 Gas cylinders. Design, construction and testing of refillable seamless steel gas cylinders and tubes. Quenched and tempered steel cylinders and tubes with tensile strength greater than or equal to 1 100 MPa
S70, S72	C1.6.70, C1.6.90	BS EN ISO 9809-3:2010 Gas cylinders. Refillable seamless steel gas cylinders. Design, construction and testing. Normalized steel cylinders	Withdrawn, Superseded	BS EN ISO 9809-3:2019 Gas cylinders. Design, construction and testing of refillable seamless steel gas cylinders and tubes. Normalized steel cylinders and tubes
S70	C1.6.70		New Addition	PD CEN ISO/TS 21805:2019 Guidance on design, selection and installation of vents to safeguard the structural integrity of enclosures protected by gaseous fire-extinguishing systems

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			
S71	D1.6.80	BS EN 13565-1:2003+A1:2007 Fixed firefighting systems. Foam systems. Requirements and test methods for components	Withdrawn, Superseded	BS EN 13565-1:2019 Fixed firefighting systems. Foam systems. Part 1: Requirements and test methods for components
S71	D1.6.80	BS EN 13565-2:2009 Fixed firefighting systems. Foam systems. Design, construction and maintenance	Withdrawn, Superseded	BS EN 13565-2:2018 Fixed firefighting systems. Foam systems. Design, construction and maintenance
S73	B8.6.100		New Addition	BS 8663-1:2019 Fixed fire protection systems. Components for watermist systems. Specification and test methods for watermist nozzles
T10, T11, T13	C1.4.30, C1.4.40, C1.4.60		New Addition	BS EN 13384-1:2015+A1:2019 Chimneys. Thermal and fluid dynamic calculation methods. Chimneys serving one combustion appliance
T10, T11, T13	C1.4.30, C1.4.40, C1.4.60		New Addition	BS EN 13384-2:2015+A1:2019 Chimneys. Thermal and fluid dynamic calculation methods. Chimneys serving more than one combustion appliance
T10, T11, T13	C1.4.30, C1.4.40, C1.4.60		New Addition	BS EN 13384-3:2005 Chimneys. Thermal and fluid dynamic calculation methods. Methods for the development of diagrams and tables for chimneys serving one heating appliance
T14, T60, T69, U60	C1.4.70, C1.4.380, C1.4.350		New Addition	BS EN 13136:2013+A1:2018 Refrigerating systems and heat pumps. Pressure relief devices and their associated piping. Methods for

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			
				calculation
T14, T70, U60	C1.4.70, C1.4.390, C1.4.350		New Addition	BS ISO 16358-1:2013+A1:2019 Air-cooled air conditioners and air-to-air heat pumps. Testing and calculating methods for seasonal performance factors. Cooling seasonal performance factor
T14, T70, U60	C1.4.70, C1.4.390, C1.4.350		New Addition	BS ISO 16358-2:2013 Air-cooled air conditioners and air-to-air heat pumps. Testing and calculating methods for seasonal performance factors. Heating seasonal performance factor
T14, T70, U60	C1.4.70, C1.4.390, C1.4.350		New Addition	BS ISO 16358-3:2013 Air-cooled air conditioners and air-to-air heat pumps. Testing and calculating methods for seasonal performance factors. Annual performance factor
T16	C1.4.90		New Addition	BS EN ISO 20023:2018 Solid biofuels. Safety of solid biofuel pellets. Safe handling and storage of wood pellets in residential and other small-scale applications
T19, Y40, Y46	C1.4.100, D1.4.450, D1.4.520	BS EN 573-3:2013 Aluminium and aluminium alloys. Chemical composition and form of wrought products. Chemical composition and form of products	Withdrawn, Superseded	BS EN 573-3:2019 Aluminium and aluminium alloys. Chemical composition and form of wrought products. Chemical composition and form of products
T19	C1.4.100	BS EN 62281:2017 Safety of primary and secondary lithium cells and batteries during transport	Withdrawn, Superseded	BS EN IEC 62281:2019 Safety of primary and secondary lithium cells and batteries during transport

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			
T19, V10, V13, V14, V34, V35	C1.4.100, C2.1.10, C2.1.40, C2.1.50, C2.1.160, C2.1.170		New Addition	BS HD 60364-8-2:2011+A11:2019 Low-voltage electrical installations. Prosumer's low-voltage electrical installations
T20, T32, T61, T69, Y10	C1.4.110, C1.4.385, D1.8.10	BS EN 489:2009 District heating pipes. Preinsulated bonded pipe systems for directly buried hot water networks. Joint assembly for steel service pipes, polyurethane thermal insulation and outer casing of polyethylene	Withdrawn, Superseded	BS EN 489-1:2019 District heating pipes. Bonded single and twin pipe systems for buried hot water networks. Joint casing assemblies and thermal insulation for hot water networks in accordance with EN 13941-
T20, T32, T61, T69, Y10, Z Part 2	C1.4.110, D1.8.10, C1.10.20	BS EN 13941:2009+A1:2010 Design and installation of preinsulated bonded pipe systems for district heating	Withdrawn, Superseded	BS EN 13941-2:2019 District heating pipes. Design and installation of thermal insulated bonded single and twin pipe systems for directly buried hot water networks. Installation
T32, T69, Y20, Z Part 2	D1.8.40, C1.8.40		New Addition	BS EN 17038-1:2019 Pumps. Methods of qualification and verification of the Energy Efficiency Index for rotodynamic pump units. General requirements and procedures for testing and calculation of Energy Efficiency Index (EEI)
T32, T69, Y20, Z Part 2	D1.8.40, C1.8.40		New Addition	BS EN 17038-2:2019 Pumps. Methods of qualification and verification of the Energy Efficiency Index for rotodynamic pump units. Testing and calculation of Energy Efficiency Index (EEI) of single pump units
		BS EN 621:2009		BS EN 17082:2019

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			
T40, T41, T42	C1.4.140, C1.4.150	Non-domestic gas-fired forced convection air heaters for space heating not exceeding a net heat input of 300 kW, without a fan to assist transportation of combustion air and/or combustion products	Withdrawn, Superseded	Domestic and non-domestic gas-fired forced convection air heaters for space heating not exceeding a net heat input of 300 kW
		BS EN 525:2009 Non-domestic direct gas-fired forced convection air heaters for space heating not exceeding a net heat input of 300 kW		
		BS EN 778:2009 Domestic gas-fired forced convection air heaters for space heating not exceeding a net heat input of 70 kW, without a fan to assist transportation of combustion air and/or combustion products		
T42	C1.4.150		New Addition	BS EN 416:2019. Gas-fired overhead radiant tube heaters and radiant tube heater systems for non-domestic use. Safety and energy efficiency.
T42	C1.4.150	BS EN 416-1:2009 Single burner gas-fired overhead radiant tube heaters for non-domestic use. Safety	Withdrawn, Superseded	BS EN 416:2019. Gas-fired overhead radiant tube heaters and radiant tube heater systems for non-domestic use. Safety and energy efficiency.
		BS EN 416-2:2006 Single burner gas-fired overhead radiant tube heaters for non-domestic use. Rational use of energy		BS EN 17175:2019. Gas-fired overhead radiant strip heaters and multi-burner continuous radiant tube heater systems for non-domestic use. Safety and energy efficiency
T42	C1.4.150	BS EN 419-1:2009	New Addition	BS EN 419:2019. Gas-fired overhead luminous

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			
		Non-domestic gas-fired overhead luminous radiant heaters. Safety BS EN 419-2:2006 Non-domestic gas-fired overhead luminous radiant heaters. Rational use of energy		radiant heaters for non-domestic use. Safety and energy efficiency
T60, T69, T71, U43, U50	C1.4.380, C1.4.410, C1.4.320	BS EN 13487:2003 Heat exchangers. Forced convection air cooled refrigerant condensers and dry coolers. Sound measurement	Withdrawn, Superseded	BS EN 13487:2019 Heat exchanger. Forced convection air cooled refrigerant condensers and dry coolers. Sound measurement
T70, U10, U14, U19, Z Part 2	C1.4.390, C1.4.180, C1.4.220, C1.4.450, C1.4.480		New Addition	BS EN 16798-1:2019 Energy performance of buildings. Ventilation for buildings. Indoor environmental input parameters for design and assessment of energy performance of buildings addressing indoor air quality, thermal environment, lighting and acoustics. Module M1-6
T71	C1.4.410		New Addition	BS EN 16855-2:2018 Walk-in cold rooms. Definition, thermal insulation performance and test methods. Customized cold rooms
U12	C1.4.200	BS EN 60335-2-99:2003 Specification for safety of household and similar electrical appliances. Particular requirements for commercial electric hoods	Withdrawn, Superseded	BS EN 60335-2-99:2003+A1:2019 Household and similar electrical appliances. Safety. Particular requirements for commercial electric hoods
U15, Y42, Z Part 2	C1.4.230, D1.4.470, C1.4.450, C1.4.470	BS EN 1822-1:2009 High efficiency air filters (EPA, HEPA and ULPA). Classification, performance testing, marking	Withdrawn, Superseded	BS EN 1822-1:2019 High efficiency air filters (EPA, HEPA and ULPA). Classification, performance testing, marking



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			
V11	C2.1.20	BS EN 62271-109:2009+A1:2013 High-voltage switchgear and controlgear. Alternating-current series capacitor by-pass switches	Withdrawn, Superseded	BS EN IEC 62271-109:2019 High-voltage switchgear and controlgear. Alternating-current series capacitor by-pass switches
V11	C2.1.20		New Addition	BS EN IEC 62271-107:2019 High-voltage switchgear and controlgear. Alternating current fused circuit-switchers for rated voltages above 1 kV up to and including 52 kV
V11	C2.1.20		New Addition	BS EN IEC 62271-109:2019 High-voltage switchgear and controlgear. Alternating-current series capacitor by-pass switches
V11	C2.1.20		New Addition	BS EN IEC 62271-214:2019 High-voltage switchgear and controlgear. Internal arc classification for metal-enclosed pole-mounted switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV
V11	C2.1.20		New Addition	PD IEC/TR 62271-301:2009 High-voltage switchgear and controlgear. Dimensional standardisation of high-voltage terminals
V11	C2.1.20		New Addition	PD IEC/TR 62271-305:2009 High-voltage switchgear and controlgear. Capacitive current switching capability of air-insulated disconnectors for rated voltages above 52 kV

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			
V11	C2.1.20		New Addition	PD IEC/TR 62271-306:2012+A1:2018 High-voltage switchgear and controlgear. Guide to IEC 62271-100, IEC 62271-1 and other IEC standards related to alternating current circuit-breakers
V11	C2.1.20		New Addition	PD CLC IEC/TR 62271-307:2019 High-voltage switchgear and controlgear. Guidance for the extension of validity of type tests of AC metal and solid-insulation enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV
V13	C2.1.40		New Addition	BS EN 61427-2:2015 Secondary cells and batteries for renewable energy storage. General requirements and methods of test. On-grid applications
V13	C2.1.40		New Addition	BS EN 61853-1:2011 Photovoltaic (PV) module performance testing and energy rating. Irradiance and temperature performance measurements and power rating
V13	C2.1.40		New Addition	BS EN 61853-2:2016 Photovoltaic (PV) module performance testing and energy rating. Spectral responsivity, incidence angle and module operating temperature
V13	C2.1.40		New Addition	BS EN IEC 61853-3:2018 Photovoltaic (PV) module performance testing and energy rating. Energy rating of PV modules

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			
V13	C2.1.40		New Addition	BS EN IEC 61853-4:2018 Photovoltaic (PV) module performance testing and energy rating. Standard reference climatic profiles
V13	C2.1.40		New Addition	BS EN 62852:2015 Connectors for DC-application in photovoltaic systems. Safety requirements and tests
V13	C2.1.40		New Addition	PD CEN/TR 16999:2019 Solar energy systems for roofs. Requirements for structural connections to solar panels
V13	C2.1.40		New Addition	PD IEC TS 62738:2018 Ground-mounted photovoltaic power plants. Design guidelines and recommendations
V14	C2.1.50	BS EN 61400-11:2003 Wind turbine generator systems. Acoustic noise measurement techniques	Withdrawn, Superseded	BS EN 61400-11:2013+A1:2018 Wind turbines. Acoustic noise measurement techniques
V14	C2.1.50	BS EN 61400-1:2005+A1:2010 Wind turbines. Design requirements	Withdrawn, Superseded	BS EN IEC 61400-1:2019 Wind energy generation systems. Design requirements
V14	C2.1.50		New Addition	BS EN IEC 61400-21-1:2019 Wind energy generation systems. Measurement and assessment of electrical characteristics. Wind turbines
V14	C2.1.50	BS EN 61400-24:2010 Wind turbines. Lightning protection	Withdrawn, Superseded	BS EN IEC 61400-24:2019 Wind energy generation systems. Lightning protection
V21	C2.2.10		New Addition	BS EN 12665:2018 Light and lighting. Basic terms and criteria for specifying lighting requirements
V21	C2.2.10		New Addition	BS EN 17037:2018

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			
				Daylight in buildings
V21, V40, V41	C2.2.10, C2.2.20, C2.2.30	BS EN 12193:2007 Light and lighting. Sports lighting	Withdrawn, Superseded	BS EN 12193:2018 Light and lighting. Sports lighting
V21	C2.2.10		New Addition	BS EN 62386-101:2014+A1:2018 Digital addressable lighting interface. General requirements. System components
V21	C2.2.10		New Addition	BS EN 62386-102:2014+A1:2018 Digital addressable lighting interface. Part 102: General requirements - Control gear
V21	C2.2.10		New Addition	BS EN 62386-103:2014+A1:2018 Digital addressable lighting interface. Part 103: General requirements - Control devices
V21	C2.2.10		New Addition	BS EN 62386-201:2015 Digital addressable lighting interface. Particular requirements for control gear. Fluorescent lamps (device type 0)
V21	C2.2.10		New Addition	BS EN 62386-202:2009 Digital addressable lighting interface. Particular requirements for control gear. Self-contained emergency lighting (device type 1)
V21	C2.2.10		New Addition	BS EN 62386-203:2009 Digital addressable lighting interface. Particular requirements for control gear. Discharge lamps (excluding fluorescent lamps) (device type 2)
V21	C2.2.10		New Addition	BS EN 62386-204:2009 Digital addressable

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			
				lighting interface. Particular requirements for control gear. Low voltage halogen lamps (device type 3)
V21	C2.2.10		New Addition	BS EN 62386-205:2009 Digital addressable lighting interface. Particular requirements for control gear. Supply voltage controller for incandescent lamps (device type 4)
V21	C2.2.10		New Addition	BS EN 62386-206:2009 BS EN 62386-206:2009. Digital addressable lighting interface. Particular requirements for control gear. Conversion from digital signal into d.c. voltage (device type 5)
V21	C2.2.10		New Addition	BS EN 62386-208:2009 Digital addressable lighting interface. Particular requirements for control gear. Switching function (device type 7)
V21	C2.2.10		New Addition	BS EN 62386-209:2011 Digital addressable lighting interface. Particular requirements for control gear. Colour control (device type 8)
V21	C2.2.10		New Addition	BS EN 62386-210:2011 Digital addressable lighting interface. Particular requirements for control gear. Sequencer (device type 9)
V21	C2.2.10		New Addition	BS EN 62386-301:2017 Digital addressable lighting interface. Particular requirements. Input devices. Push buttons

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			
V21	C2.2.10		New Addition	BS EN 62386-302:2017 Digital addressable lighting interface. Particular requirements. Input devices. Absolute input devices
V21	C2.2.10		New Addition	BS EN 62386-303:2017 Digital addressable lighting interface. Particular requirements. Input devices. Occupancy sensor
V21	C2.2.10		New Addition	BS EN 62386-304:2017 Digital addressable lighting interface. Particular requirements. Input devices. Light sensor
V21	C2.2.10		New Addition	BS EN 62595-1-1:2013 LCD backlight unit. Generic specification
V21	C2.2.10		New Addition	BS EN 62595-1-2:2012 LCD backlight unit. Terminology and letter symbols
V21	C2.2.10		New Addition	BS EN 62595-2:2013 LCD backlight unit. Electro-optical measurement methods of LED backlight unit
V21	C2.2.10		New Addition	BS EN IEC 62386-104:2019 Digital addressable lighting interface. General requirements. Wireless and alternative wired system components
V21, Y73	C2.2.10, D2.2.50	BS EN 62386-207:2009 Digital addressable lighting interface. Particular requirements for control gear. LED modules (device type 6)	Withdrawn, Superseded	BS EN IEC 62386-207:2018 Digital addressable lighting interface. Particular requirements for control gear. LED modules (device type 6)
V21	C2.2.10		New Addition	BS EN IEC 62386-216:2018 Digital addressable

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			
				lighting interface. Particular requirements for control gear. Load referencing (device type 15)
V21	C2.2.10		New Addition	BS EN IEC 62386-218:2018 Digital addressable lighting interface. Particular requirements for control gear. Dimming curve selection (device type 17)
V21	C2.2.10		New Addition	BS EN IEC 62386-220:2019 Digital addressable lighting interface. Particular requirements for control gear. Centrally supplied emergency operation (device type 19)
V21	C2.2.10		New Addition	BS EN IEC 62386-221:2018 Digital addressable lighting interface. Particular requirements for control gear. Demand response (device type 20)
V21	C2.2.10		New Addition	BS EN IEC 62386-222:2018 Digital addressable lighting interface. Particular requirements for control gear. Thermal lamp protection (device type 21)
V21	C2.2.10		New Addition	BS EN IEC 62386-224:2018 Digital addressable lighting interface. Particular requirements for control gear. Non-replaceable light source (device type 23)
V21	C2.2.10		New Addition	BS EN IEC 62386-333:2018 Digital addressable

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			
				lighting interface. Particular requirements for control devices. Manual configuration (feature type 33)
V21	C2.2.10		New Addition	BS IEC 62595-2-2:2018 Display lighting unit. Measuring methods of LED light bars used in LCD BLUs
V21	C2.2.10		New Addition	BS IEC 62595-2-3:2018 Display lighting unit. Electro-optical measuring methods for LED frontlight unit
V21	C2.2.10		New Addition	IEC 62595-1-2:2016 Display lighting unit. Terminology and letter symbols
V21	C2.2.10		New Addition	IEC 62595-2-1:2016 Display lighting unit. Electro-optical measuring methods of LED backlight unit
V21	C2.2.10		New Addition	PD IEC TR 62595-1-3:2019 Display lighting unit. Lighting units with arbitrary shapes
V21, V41	C2.2.10, C2.2.30		Withdrawn, Superseded	Full update to CIBSE Codes and SLL Lighting Guides
V32, V40, V91, V92	C2.1.90, C2.2.20	BS EN 62040-1:2008+A1:2013 Uninterruptible power systems (UPS). General and safety requirements for UPS	Withdrawn, Superseded	BS EN IEC 62040-1:2019 Uninterruptible power systems (UPS). Safety requirements
V32, V91, V92	C2.1.90	BS EN 62040-2:2006 Uninterruptible power systems (UPS). Electromagnetic compatibility (EMC) requirements	Withdrawn, Superseded	BS EN IEC 62040-2:2018 Uninterruptible power systems (UPS). Electromagnetic compatibility (EMC) requirements
V34	C2.1.160	BS EN 61851-1:2011 Electric vehicle conductive charging	Withdrawn, Superseded	BS EN IEC 61851-1:2019 Electric vehicle conductive charging system. General



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			
		system. General requirements		requirements
V35	C2.1.170		New Addition	BS EN IEC 62933-1:2018 Electrical Energy Storage (EES) systems. Terminology
V35	C2.1.170		New Addition	BS EN IEC 62933-2-1:2018 Electrical energy storage (EES) systems. Unit parameters and testing methods. General specification
W30	C2.3.20		New Addition	BS EN IEC 62966-1:2019 Mechanical structures for electrical and electronic equipment. Aisle containment for IT cabinets. Dimensions and mechanical requirements
V40, V90, Y73, Z Part 2	C2.2.20, D2.2.50, C2.2.50	BS EN 61347-2-7:2012 Lamp controlgear. Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)	Withdrawn, Superseded	BS EN 61347-2-7:2012+A1:2019 Lamp controlgear. Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)
V51	C1.4.170	BS EN 60675:1995+A2:2018 Household electric direct-acting room heaters. Methods for measuring performance	Withdrawn, Superseded	BS EN 60675:1995+A11:2019 Household electric direct-acting room heaters. Methods for measuring performance
V92, W20, W21, W22	C2.3.80, C2.3.90, C2.3.100		New Addition	BS EN 50563:2011+A1:2013 External a.c. d.c. and a.c. a.c. power supplies. Determination of no-load power and average efficiency of active modes
V92, W41, W42	C2.4.20, C2.4.30	BS EN 62676-2-3:2014 Video surveillance systems for use in security applications. Video transmission protocols. IP	Withdrawn, Superseded	BS EN IEC 62676-2-31:2019 Video surveillance systems for use in security applications. Live streaming and control

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			
		interoperability implementation based on Web services		based on web services
V92, W41, W42	C2.4.20, C2.4.30	BS EN 62676-2-3:2014 Video surveillance systems for use in security applications. Video transmission protocols. IP interoperability implementation based on Web services	Withdrawn, Superseded	BS EN IEC 62676-2-32:2019 Video surveillance systems for use in security applications. Recording control and replay based on web services
W12	C2.3.50	BS EN 60118-4:2006 Electroacoustics. Hearing aids. Induction loop systems for hearing aid purposes. Magnetic field strength	Withdrawn, Superseded	BS EN IEC 60118-4:2015+A1:2018 Electroacoustics. Hearing aids. Induction-loop systems for hearing aid purposes. System performance requirements
W12	C2.3.50		New Addition	PD IEC TR 63079:2017+A1:2018 Code of practice for hearing-loop systems (HLS)
W20	C2.3.80		New Addition	BS EN IEC 60728-113:2018 Cable networks for television signals, sound signals and interactive services. Optical systems for broadcast signal transmissions loaded with digital channels only
W20	C2.3.80	BS EN 60728-3:2011 Cable networks for television signals, sound signals and interactive services. Active wideband equipment for cable networks	Withdrawn, Superseded	BS EN IEC 60728-3:2018 Cable networks for television signals, sound signals and interactive services. Active wideband equipment for cable networks (TA 5)
W22, Y73	C2.3.100, D2.2.50	BS EN 62560:2012 Self-ballasted LED-lamps for general lighting services by voltage > 50 V. Safety specifications	Withdrawn, Superseded	BS EN 62560:2012+A11:2019 Self-ballasted LED-lamps for general lighting services by voltage > 50 V. Safety specifications
W41	C2.4.20		New Addition	BS EN 50131-8:2019

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			
				Alarm systems. Intrusion and hold-up systems. Security fog devices
W41	C2.4.20		New Addition	BS EN 50136-1:2012+A1:2018 Alarm systems. Alarm transmission systems and equipment. General requirements for alarm transmission systems
W41	C2.4.20		New Addition	PD CLC/TS 50134-9:2018 Alarm systems. Social alarm systems. IP Communications Protocol
W60, W69	C1.7.10		New Addition	BS EN 50194-1:2009 Electrical apparatus for the detection of combustible gases in domestic premises. Test methods and performance requirements
W60, W69	C1.7.10	BS EN 60534-3-1:2000, IEC 60534-3-1:2000 Industrial-process control valves. Dimensions. Face-to-face dimensions for flanged, two-way, globe-type, straight pattern and centre-to-face dimensions for flanged, two-way, globe-type, angle pattern control valves	Withdrawn, Superseded	BS EN IEC 60534-3-1:2019 Industrial-process control valves. Dimensions. Face-to-face dimensions for flanged, two-way, globe-type, straight pattern and centre-to-face dimensions for flanged, two-way, globe-type, angle pattern control valves
W60, W69	C1.7.10	BS EN 61918:2013 Industrial communication networks. Installation of communication networks in industrial premises	Withdrawn, Superseded	BS EN IEC 61918:2018+A11:2019 Industrial communication networks. Installation of communication networks in industrial premises
W60, W69	C1.7.10		New Addition	BS IEC 62990-1:2019 Workplace atmospheres. Gas detectors. Performance requirements of detectors for toxic gases

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			
X10, X19	C3.1.10		New Addition	BS 8486-8:2018 Examination and test of new lifts before putting into service. Specification for means of determining compliance with BS EN 81. Lift features for fire-fighting conforming to BS EN 81-72
X10, X19	C3.1.10		New Addition	BS 8486-9:2018 Examination and test of new lifts before putting into service. Specification for means of determining compliance with BS EN 81. Lift features for emergency recall conforming to BS EN 81-73
X10	C3.1.10		New Addition	DD CEN/TS 81-83:2009 Safety rules for the construction and installation of lifts. Existing lifts. Rules for the improvement of the resistance against vandalism
X11, X12	C3.1.20, C3.1.30		New Addition	BS ISO 8102-6:2019 Electrical requirements for lifts, escalators and moving walks. Programmable electronic systems in safety-related applications for escalators and moving walks (PESSRAE)
X21	C3.2.20		Amendment 1	BS 7121-3:2017+A1:2019 Code of practice for safe use of cranes. Mobile cranes
X21	C3.2.20	BS 7121-5:2006 Code of practice for safe use of cranes. Tower cranes	Withdrawn, Superseded	BS 7121-5:2019 Code of practice for safe use of cranes. Tower cranes
X21	C3.2.20		Amendment 2	BS EN 12999:2011+A2:2018 Cranes. Loader cranes

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			
X21	C3.2.20		Amendment 1	BS EN 13135:2013+A1:2018 Cranes. Safety. Design. Requirements for equipment
X21	C3.2.20		Amendment 1	BS EN 14492-1:2006+A1:2009 Cranes. Power driven winches and hoists. Power driven winches
X21	C3.2.20	BS EN 14492-2:2006+A1:2009 Cranes. Power driven winches and hoists. Power driven hoists	Withdrawn, Superseded	BS EN 14492-2:2019 Cranes. Power driven winches and hoists. Power driven hoists
Y10, Y25, Z Part 2	D1.8.10, D1.10.1, C1.8.10	BS EN 10217-1:2002 Welded steel tubes for pressure purposes. Technical delivery conditions. Non-alloy steel tubes with specified room temperature properties	Withdrawn, Superseded	BS EN 10217-1:2019 Welded steel tubes for pressure purposes - Technical delivery conditions. Part 1: Electric welded and submerged arc welded non-alloy steel tubes with specified room temperature properties
Y10, Y25, Z Part 2	D1.8.10, D1.10.1, C1.8.10	BS EN 10217-2:2002+A1:2005 Welded steel tubes for pressure purposes. Technical delivery conditions. Electric welded non-alloy and alloy steel tubes with specified elevated temperature properties	Withdrawn, Superseded	BS EN 10217-2:2019 Welded steel tubes for pressure purposes. Technical delivery conditions. Electric welded non-alloy and alloy steel tubes with specified elevated temperature properties
Y10, Y25, Z Part 2	D1.8.10, D1.10.1, C1.8.10	BS EN 10217-3:2002 Welded steel tubes for pressure purposes. Technical delivery conditions. Alloy fine grain steel tubes	Withdrawn, Superseded	BS EN 10217-3:2019 Welded steel tubes for pressure purposes. Technical delivery conditions. Electric welded and submerged arc welded alloy fine grain steel tubes with specified room, elevated and low temperature properties
Y10, Y25, Z Part 2	D1.8.10,	BS EN 10217-4:2002	Withdrawn, Superseded	BS EN 10217-4:2019 Welded steel tubes for

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			
	D1.10.1, C1.8.10	Welded steel tubes for pressure purposes. Technical delivery conditions. Electric welded non-alloy steel tubes with specified low temperature properties		pressure purposes. Technical delivery conditions. Electric welded non-alloy steel tubes with specified low temperature properties
Y10, Y25, Z Part 2	D1.8.10, D1.10.1, C1.8.10	BS EN 10217-5:2002 Welded steel tubes for pressure purposes. Technical delivery conditions. Submerged arc welded non-alloy and alloy steel tubes with specified elevated temperature properties	Withdrawn, Superseded	BS EN 10217-5:2019 Welded steel tubes for pressure purposes. Technical delivery conditions. Submerged arc welded non-alloy and alloy steel tubes with specified elevated temperature properties
Y10, Y25, Z Part 2	D1.8.10, D1.10.1, C1.8.10	BS EN 10217-6:2002 Welded steel tubes for pressure purposes. Technical delivery conditions. Submerged arc welded non-alloy steel tubes with specified low temperature properties	Withdrawn, Superseded	BS EN 10217-6:2019 Welded steel tubes for pressure purposes. Technical delivery conditions. Submerged arc welded non-alloy steel tubes with specified low temperature properties
Y20	D1.8.40		New Addition	BS EN ISO 20361:2019 Liquid pumps and pumps units. Noise test code. Grades 2 and 3 of accuracy
Y40, Y46	D1.4.450, D1.4.520	BS EN 485-1:2008+A1:2009 Aluminium and aluminium alloys. Sheet, strip and plate. Technical conditions for inspection and delivery	Withdrawn, Superseded	BS EN 485-1:2016 Aluminium and aluminium alloys. Sheet, strip and plate. Technical conditions for inspection and delivery
Y40, Y46	D1.4.450, D1.4.520	BS EN 485-2:2013 Aluminium and aluminium alloys. Sheet, strip and plate. Mechanical properties	Amendment 1	BS EN 485-2:2016+A1:2018 Aluminium and aluminium alloys. Sheet, strip and plate. Mechanical properties
Y41	D1.4.460	BS ISO 19499:2007 Mechanical vibration. Balancing. Guidance on the use and application of balancing standards	Withdrawn, Superseded	BS ISO 21940-1:2019 Mechanical vibration. Rotor balancing. Introduction

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			
Y42, Z Part 2	D1.4.470, C1.4.450, C1.4.490		New Addition	BS EN ISO 29463-2:2018 High-efficiency filters and filter media for removing particles in air. Aerosol production, measuring equipment and particle-counting statistics
Y42, Z Part 2	D1.4.470, C1.4.450, C1.4.490		New Addition	BS EN ISO 29463-3:2018 High-efficiency filters and filter media for removing particles in air. Testing flat sheet filter media
Y42, Z Part 2	D1.4.470, C1.4.450, C1.4.490		New Addition	BS EN ISO 29463-4:2018 High-efficiency filters and filter media for removing particles in air. Test method for determining leakage of filter elements. Scan method
Y42, Z Part 2	D1.4.470, C1.4.450, C1.4.490		New Addition	BS EN ISO 29463-5:2018 High-efficiency filters and filter media for removing particles in air. Test method for filter elements
Y46, Z Part 2	D1.4.520, C1.4.520	BS EN 13216-1:2004 Chimneys. Test methods for system chimneys. General test methods	Withdrawn, Superseded	BS EN 13216-1:2019 Chimneys. Test methods for system chimneys. General test methods
Y60	D2.6.10		New Addition	BS EN 61386-24:2010 Conduit systems for cable management. Particular requirements. Conduit systems buried underground
Y60	D2.6.10		New Addition	BS EN 61386-25:2011 Conduit systems for cable management. Particular requirements. Conduit fixing devices
Y61	D2.6.20		New Addition	BS EN 60794-2-22:2017 Optical fibre cables. Indoor cables. Detail specification for multi-simplex breakout optical cables to be terminated with connectors
Y61	D2.6.20		New Addition	BS EN 60794-2-40:2008

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			
				Optical fibre cables. Indoor optical fibre cables. Family specification for A4 fibre cables
Y61	D2.6.20		New Addition	BS EN 60794-2-41:2008 Optical fibre cables. Indoor cables. Product specification for simplex and duplex buffered A4 fibres
Y61	D2.6.20		New Addition	BS EN 60794-2-42:2008 Optical fibre cables. Indoor optical fibre cables. Product specification for simplex and duplex cables with A4 fibres
Y61	D2.6.20		New Addition	BS EN 60794-2-50:2008 Optical fibre cables. Indoor cables. Family specification for simplex and duplex cables for use in terminated cable assemblies
Y61	D2.6.20		New Addition	BS EN 60794-3-12:2013 Optical fibre cables. Outdoor cables. Detailed specification for duct and directly buried optical telecommunication cables for use in premises cabling
Y61	D2.6.20		New Addition	BS EN 60794-3-21:2016 Optical fibre cables. Outdoor cables. Product specification for optical self-supporting aerial telecommunication cables for use in premises cabling
Y61	D2.6.20		New Addition	BS EN 60794-3-40:2008 Optical fibre cables. Outdoor cables. Family specification for sewer cables and conduits for installation by blowing and/or pulling in non-man accessible storm



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			
				and sanitary sewers
Y61	D2.6.20		New Addition	BS EN 60794-3-50:2008 Optical fibre cables. Outdoor cables. Family specification for gas pipe cables and subducts for installation by blowing and/or pulling/dragging in gas pipes
Y61	D2.6.20		New Addition	BS EN 60794-3-60:2008 Optical fibre cables. Outdoor cables. Family specification for drinking water pipe cables and subducts for installation by blowing and/or pulling/dragging/floating in drinking water pipes
Y61	D2.6.20		New Addition	BS EN 60794-3-70:2016 Optical fibre cables. Outdoor cables. Family specification for outdoor optical fibre cables for rapid/multiple deployment
Y61	D2.6.20		New Addition	BS EN 60794-4-10:2014 Optical fibre cables. Family specification. Optical ground wires (OPGW) along electrical power lines
Y61	D2.6.20		New Addition	BS EN 61442:2005 Test methods for accessories for power cables with rated voltages from 6 kV (Um = 7,2 kV) up to 36 kV (Um = 42 kV)
Y61	D2.6.20		New Addition	BS EN IEC 60794-2-11:2019 Optical fibre cables. Indoor cables. Detailed specification for simplex and duplex cables for use in premises cabling
Y61	D2.6.20		New Addition	BS EN IEC 60794-2-21:2019 Optical fibre cables.

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			
				Indoor cables. Detailed specification for multi-fibre optical distribution cables for use in premises cabling
Y61	D2.6.20		New Addition	BS EN IEC 60794-2-30:2019 Optical fibre cables. Indoor cables. Family specification for optical fibre ribbon cables for use in terminated cable assemblies
Y61	D2.6.20		New Addition	BS EN IEC 60794-2-31:2019 Optical fibre cables. Indoor cables. Detailed specification for optical fibre ribbon cables for use in premises cabling
Y61	D2.6.20		New Addition	BS EN IEC 60794-4-20:2018 Optical fibre cables. Sectional specification. Aerial optical cables along electrical power lines. Family specification for ADSS (all dielectric self-supported) optical cables
Y71	D2.6.50		Amendment 1	BS EN 50470-1:2006+A1:2018 Electricity metering equipment (a.c.). General requirements, tests and test conditions. Metering equipment (class indexes A, B and C)
Y71	D2.6.50		Amendment 1	BS EN 50470-2:2006+A1:2018 Electricity metering equipment (a.c.). Particular requirements. Electromechanical meters for active energy (class indexes A and B)
Y71	D2.6.50		New Addition	BS EN 63024:2018 Requirements for automatic reclosing

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			
				devices (ARDs) for circuit-breakers, RCBOs-RCCBs for household and similar uses
Y72	D2.6.60		New Addition	BS EN IEC 61158-3-25:2019 Industrial communication networks. Fieldbus specifications. Data-link layer service definition. Type 25 elements
Y72	D2.6.60		New Addition	BS EN IEC 61158-4-25:2019 Industrial communication networks. Fieldbus specifications. Data-link layer protocol specification. Type 25 elements
Y72	D2.6.60		New Addition	BS EN IEC 61158-5-25:2019 Industrial communication networks. Fieldbus specifications. Application layer service definition. Type 25 elements
Y72	D2.6.60		New Addition	BS EN IEC 61158-5-26:2019 Industrial communication networks. Fieldbus specifications. Application layer service definition. Type 26 elements
Y73	D2.2.50		Amendment 16	BS EN 60061-4:1992+A16:2018 Lamp caps and holders together with gauges for the control of interchangeability and safety. Guidelines and general information
Y73	D2.2.50		New Addition	BS EN 60838-1:2017+A1:2017 Miscellaneous lampholders. General requirements and tests
Y73	D2.2.50		New Addition	BS EN 60838-2-1:1996, IEC 60838-2-1:1994

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			
				Miscellaneous lampholders. Particular requirements. Lampholders S14
Y73	D2.2.50		New Addition	BS EN 60838-2-2:2006+A1:2012 Miscellaneous lampholders. Particular requirements. Connectors for LED-modules
Y73	D2.2.50		New Addition	BS EN 60838-2-3:2017 Miscellaneous lampholders. Particular requirements. Lampholders for double-capped linear LED lamps
Y73	D2.2.50		New Addition	BS EN 61995-1:2008+A1:2017 Devices for the connection of luminaires for household and similar purposes. General requirements
Y73	D2.2.50		New Addition	BS EN 61995-2:2009+A1:2017 Devices for the connection of luminaires for household and similar purposes. Standard sheets for DCL
Y73	D2.2.50		New Addition	BS EN 62532:2011+A1:2017 Fluorescent induction lamps. Safety specifications
Y73	D2.2.50		New Addition	BS EN 62717:2017+A2:2019 LED modules for general lighting. Performance requirements. Amendment 2
Y73	D2.2.50		New Addition	BS EN IEC 60598-2-17:2018 Luminaires. Particular requirements. Luminaires for stage lighting, television and film studios (outdoor and

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			
				indoor)
Z Part 2	C1.8.10	BS EN 15655:2009 Ductile iron pipes, fittings and accessories. Internal polyurethane lining for pipes and fittings. Requirements and test methods	Withdrawn, Superseded	BS EN 15655-1:2018 Ductile iron pipes, fittings and accessories. Requirements and test methods for organic linings of ductile iron pipes and fittings. Polyurethane lining of pipes and fittings
Z Part 2	C1.8.10		New Addition	BS EN ISO 19893:2018 Plastics piping systems. Thermoplastics pipes and fittings for hot and cold water. Test method for the resistance of mounted assemblies to temperature cycling
Z Part 2	C1.8.20		New Addition	BS EN 19:2016 Industrial valves. Marking of metallic valves
Z Part 2	C1.8.20		New Addition	BS EN 12516-1:2014+A1:2018 Industrial valves. Shell design strength. Tabulation method for steel valve shells
Z Part 2	C1.8.20		New Addition	BS EN 12516-4:2014+A1:2018 Industrial valves. Shell design strength. Calculation method for valve shells manufactured in metallic materials other than steel
Z Part 2	C1.8.20	BS EN ISO 15848-2:2006 Industrial valves. Measurement, test and qualification procedures for fugitive emissions. Production acceptance test of valves	Withdrawn, Superseded	BS EN ISO 15848-2:2015 Industrial valves. Measurement, test and qualification procedures for fugitive emissions. Production acceptance test of valves
Z Part 2	C1.8.20		Amendment 1	BS EN ISO 16135:2006+A1:2019 Industrial valves. Ball valves of thermoplastics materials

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			
Z Part 2	C1.8.20		Amendment 1	BS EN ISO 16136:2006+A1:2019 Industrial valves. Butterfly valves of thermoplastics materials
Z Part 2	C1.8.20		Amendment 1	BS EN ISO 16137:2006+A1:2019 Industrial valves. Check valves of thermoplastics materials
Z Part 2	C1.8.20		Amendment 1	BS EN ISO 16138:2006+A1:2019 Industrial valves. Diaphragm valves of thermoplastics materials
Z Part 2	C1.8.20		Amendment 1	BS EN ISO 16139:2006+A1:2019 Industrial valves. Gate valves of thermoplastics materials
Z Part 2	C1.8.20		New Addition	BS ISO 5209:2019 General purpose industrial valves. Marking
Z Part 2	C1.8.20		Amendment 1	BS EN ISO 21787:2006+A1:2019 Industrial valves. Globe valves of thermoplastics materials
Z Part 2	C2.2.50	BS EN 61347-1:2008+A2:2013 Lamp controlgear. General and safety requirements	Withdrawn, Superseded	BS EN 61347-1:2015 Lamp controlgear. General and safety requirements
Z Part 2	C1.4.510		New Addition	BS EN 17192:2018 Ventilation for buildings. Ductwork. Non-metallic ductwork. Requirements and test methods