

Credit number	Reference in BREEAM manual	Issues to be covered by the local best practice standard/guide/tool	European Standard reference	Local standard/tool reference
Man 1	Commissioning code for Heating systems	Pre-commissioning checks (e.g. state of the system, water tightness and pressure test, system flushing and cleaning, system filling and venting, frost precautions, mechanical and electrical checks)	CEN EN 14336:2004 Heating systems in buildings. Installation and commissioning of water based heating systems	All three following documents must be used to demonstrate compliance: - Police «Dommages - ouvrages» Contrôle technique de type «A» Prestation «PV» : récolement des PV d'essais de fonctionnement des installations et avis sur ces PV; Document Coprec; Cahier Spécial Le Moniteur N° 4954 du 1998-11-06. Essais COPREC : CH : CHAUFFAGE - Guide MAP n° 7 : Mise au point des installations hydrauliques - COSTIC, 1994 - Guide MAP n° 8 : Mise au Point des installations aérauliques - COSTIC,
		Setting to work (e.g. initial run)		
		Balancing water flow rates and tolerances		
		Adjusting controls (actuating units, transmitters, sequence control and plant operation)		
	Commissioning code for Water distribution systems	Reporting and documentation (e.g. proformas, completion certificate)		- Guide MAP n° 8 : Mise au Point des installations aérauliques - COSTIC,
		Design for commissionability requirements (clear schematics in line with specifications, adequate pipework system, flow measurement and regulating devices etc.)		All four following documents must be used to demonstrate compliance: - Police «Dommages - ouvrages» Contrôle technique de type «A» Prestation «PV» : récolement des PV d'essais de fonctionnement des installations et avis sur ces PV; Document Coprec; Cahier Spécial Le Moniteur N° 4954 du 1998-11-06. Essais COPREC : RA : Réseau d'alimentation en eau; PB : Plomberie Sanitaire - Guide MAP n° 7 : Mise au point des installations hydrauliques - COSTIC, 1994 - Guide réseaux d'eau destinée à la consommation humaine à l'intérieur des batiments Partie 1- Guide technique de conception et de mise en œuvre, CSTB, 2003 - Guide réseaux d'eau destinée à la consommation humaine à l'intérieur des bâtiments Partie 2 - Guide technique de maintenance CSTB 2003
		Pre-commissioning (e.g. state of the system, filling and venting, mechanical and electrical checks)		
		Setting pumps to work (e.g. pressurisation sets, initial run)		
	Commissioning code for Lighting systems	Balancing and regulating water flow rates		
		Site test instruments		
Reporting and documentation (e.g. proformas, completion certificate)				
Design for commissionability requirements (clear schematics in line with specifications, electrical safety etc.)			Both following documents must be used to demonstrate compliance: - Police «Dommages - ouvrages» Contrôle technique de type «A» Prestation «PV» : récolement des PV d'essais de fonctionnement des installations et avis sur ces PV; Document Coprec; Cahier Spécial Le Moniteur N° 4954 du 1998-11-06. Essais COPREC : EL : Installations électriques - NF EN 12464:2004-1 "Light and lighting – Lighting of work places – Part 1: Indoor work places". Section 6: Mode opératoire des contrôles	
Commissioning code for Ventilation systems	Pre-commissioning (e.g. state of the system, mechanical and electrical checks)			
	Pre-commissioning (e.g. state of the system, fan and electrical checks)			
	Setting to work (e.g. test run, adjustment of controls and components)	CEN EN 12599 Ventilation for buildings Test procedures and measuring methods for handing over installed ventilation and air conditioning systems.	Both following documents must be used to demonstrate compliance: - Police «Dommages - ouvrages» Contrôle technique de type «A» Prestation «PV» : récolement des PV d'essais de fonctionnement des installations et avis sur ces PV; Document Coprec; Cahier Spécial Le Moniteur N° 4954 du 1998-11-06. Essais COPREC : CA : Conditionnement d'Air; VM : Ventilation Mécanique - Guide MAP n° 8 : Mise au Point des installations aérauliques - COSTIC,	
	Functional measurements (e.g. regulation of air flow, variable air volume systems, pressure regimes)			
Commissioning code for Refrigeration systems	Measuring methods and measuring devices (e.g. flow rates and tolerances)			
	Reporting and documentation (e.g. proformas, completion certificate)			
	Design for commissionability requirements (clear schematics in line with specifications, system design, tolerances etc.)		All three following documents must be used to demonstrate compliance: - Police «Dommages - ouvrages» Contrôle technique de type «A» Prestation «PV» : récolement des PV d'essais de fonctionnement des installations et avis sur ces PV; Document Coprec; Cahier Spécial Le Moniteur N° 4954 du 1998-11-06. Essais COPREC : CA : Conditionnement d'Air; VM : Ventilation Mécanique - Guide MAP n° 7 : Mise au point des installations hydrauliques - COSTIC, 1994 - Guide MAP n° 8 : Mise au Point des installations aérauliques - COSTIC,	
	Pre-commissioning (e.g. state of the system, mechanical and electrical checks)	EN 378, part2: "Refrigerating systems and heat pumps – Safety and environmental requirements – Part 2: Design, construction, testing, marking and documentation"		
Commissioning code for Automatic controls	Combined pressure and leak testing (methods and procedures)			
	Evacuation and dehydration methods			
	Setting to work and adjusting (e.g. system checks, start-up, shut-down, running-in)			
	Test apparatus and instruments			
	Design for commissionability requirements (e.g control system specification details, sensors, control valves, access etc.)			
	Pre-commissioning (e.g. control application software, control panels, wiring, field control devices etc.)			
	Control strategy checking (e.g time schedules, control loops, sequencing, start-up and shut-down)	CLC/TR 50090-9-2:2007 CLC/TC 205 Home and Building Electronic Systems (HBES) -- Part 9-2: Installation requirements - Inspection and testing of HBES installation CEN EN 50491 General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS)	Guide MAP n° 9 : Mise au point de la régulation et de la gestion technique des bâtiments - COSTIC, 1997	
	Checking procedures for basic control functions (e.g. optimiser, compensation, control of natural ventilation)			
Commissioning code for	Lighting controls (daylight, occupancy sensors)			
	Occupant interfaces			
	Integrated systems			
Commissioning code for	Security systems			
	Reporting and documentation (e.g. proformas, O&M manual, completion certificate)			
	Sitting and installing the equipment			
Commissioning code for	Pipework			
	Strength and leak testing	"Model Building Specification for Design, Installation, and Commissioning of Insulated Envelopes and Insulated Floors for		

	Commissioning code for Cold storage	<p>Evacuating systems</p> <p>Controls and safety devices</p> <p>Suitable detail recording</p> <p>Typical cooling programme</p>	<p>Commissioning of insulated envelopes and insulated floors for Temperature Controlled and Ambient Environments", International Association for Cold Storage construction (June 2003)</p>	
Hea 1	National best practice daylighting guide	<p>Detailed design guidance on the main daylighting issues:</p> <ul style="list-style-type: none"> • Siting and massing: building form, positioning and layout • Window and rooflight size, shape and position • Window components • Daylight redirecting systems • Integration of daylight and electric light <p>How to establish design priorities in weighing sunlight in building versus energy performance.</p> <p>Daylight factor calculations:</p> <ul style="list-style-type: none"> • CIE skies • Manual calculations • Computer methods 		
		<p>BRE IP 23/93</p> <p>Daylight factor measurement under real skies</p> <p>Models and artificial skies</p>		
Hea 5	National best practice lighting guides – internal lighting	<p>Minimum recommended levels of illumination for the following function areas where they are present in the building assessed;</p> <ul style="list-style-type: none"> • Traffic zones and general areas • Industrial activities and crafts • Offices • Retail premises • Places of public assembly • Educational premises • Healthcare premises • Transportational areas 	CEN EN 12464-1 Light and lighting - Lighting of workspaces, 2002	NF EN 12464:2004 "Light and lighting – Lighting of work places – Part 1: Indoor work places". NF X 35-103 AFE : recommandations relatives a l'éclairage intérieur des lieux de travail.
		<p>Guidance on office lighting design with regard to the reduction of glare, in particular:</p> <ul style="list-style-type: none"> • Recommendations for direct lighting, ceiling illuminance, and average wall illuminance. • Limits to the luminance of the luminaires, to avoid screen reflections • Unified Glare Rating Limit (URGL) in accordance with activity area, task type and type of interior 	CEN EN 12464-1 Light and lighting - Lighting of workspaces, 2002	NF EN 12464:2004 "Light and lighting – Lighting of work places – Part 1: Indoor work places".
		<p>Minimum recommended levels of illumination for the following outdoor areas where they are present in the assessment;</p> <ul style="list-style-type: none"> • General circulation areas • Building sites • Canals, locks and harbours • Farms • Fuel filling stations • Industrial sites and storage areas • Parking areas • Power, electricity, gas and heat plants • Railways and tramways • Saw mills • Shipyards and docks • Water and sewage plants <p>Recommended levels of illumination for safety and security depending on risk level</p>	CEN EN 12464-2 Lighting of work places - Part 2: Outdoor work places, 2007	NF EN 12464:2008 "Light and lighting – Lighting of work places – Part 2 Outdoor work places".
Hea 8	National best practice ventilation standards	Rate of fresh air provided per person.	Table A 11 of CEN EN 13779:2007 – Ventilation for non-residential buildings – Performance requirements for ventilation and room-conditioning systems.	NF EN 13779: "Ventilation for non-residential buildings – Performance requirements for ventilation and room conditioning systems"
Hea 10	National best practice guides for thermal comfort levels	Internal comfort criteria, including recommended minimum and maximum room temperatures in winter and in summer for naturally and mechanically ventilated buildings.	Annex A of EN 15251:2007 Energy performance of buildings – Criteria for the indoor environment including thermal, indoor air quality, light and noise.	NF EN 15251:2007 Energy performance of buildings – Criteria for the indoor environment including thermal, indoor air quality, light and noise.
		<p>Identification and assessment of the risk</p> <p>Preventing or controlling the risk from exposure to legionella bacteria</p> <p>Record keeping</p> <p>Evaporative water cooling systems (cooling towers, evaporative condensers/coolers, adiabatic cooling systems) – guidance on:</p> <ul style="list-style-type: none"> • Design • Location • Operation 		Guide réseaux d'eau destinée à la consommation humaine à l'intérieur des

<p>Hea 12</p>	<p>National Health and Safety best practice guide</p>	<ul style="list-style-type: none"> • Filtration • Microbiological control • Monitoring • Maintenance - Cleaning and disinfection <p>Hot and cold water services</p> <ul style="list-style-type: none"> • Design and construction • Operation and maintenance • Monitoring <p>Other water systems where present in the building:</p> <ul style="list-style-type: none"> Industrial uses of water • Decorative fountains • Fire/sprinkler systems • Vehicle wash 		<p>Guide réseaux d'eau destinée à la consommation humaine à l'intérieur des bâtiments Partie 1- Guide technique de conception et de mise en œuvre, CSTB</p> <p>Guide réseaux d'eau destinée à la consommation humaine à l'intérieur des bâtiments Partie 2 - Guide technique de maintenance, CSTB</p>
<p>Ene 1</p>	<p>Name of the local EPC calculation methodology</p>	<p>N/A</p> <p>PLEASE NOTE: the requirements are indicative of the initial type of information that BRE Global will be looking at. If required BRE Global will request further information before a decision can be made. Due to the multitude of tools available it was not possible to define further requirements in this table.</p> <p>Evidence proving that the software complies with the following minimum capabilities:</p> <ul style="list-style-type: none"> • Hourly analysis for energy flows including 8760 hours of analysis. • Hourly variation of input data such as scheduled (lighting, occupancy, appliances, etc) • Thermal mass effects <ul style="list-style-type: none"> • Zoning capabilities to distinguish the different thermal zones existing in the building • Modelling part load of equipments • Modelling economisers as requested by the ASHRAE reference building. <p>Report of intermediate hourly results of calculations.</p> <p>Evidence proving that the software complies with the following Design features:</p> <ul style="list-style-type: none"> • EPBD requirements on directive annex <p>Evidence proving that the software complies with the following Design features:</p> <ul style="list-style-type: none"> • Ventilation (including natural and mechanical systems, heat gains, heat losses, heat recovery, efficiency, room temperature feedback on varying ventilation rates) • Infiltration (including effect of both gains and heat losses) • Thermal performance of building fabric (including floors, walls, roof, windows and doors) • Thermal bridging <ul style="list-style-type: none"> • Artificial lighting and natural daylighting (including energy consumption, heat gains) <ul style="list-style-type: none"> • Hot water: <ul style="list-style-type: none"> a) Demand, including heat losses b) Generation and energy requirements of supporting technologies (including LZC, district heating, CHP or other technologies used in the building). • Passive design features included in the building as significant means to achieve certain energy performance • Indoor air quality (including ventilation rate) and thermal comfort • Solar exposure (heat gains and solar protection) • Position, orientation of buildings and influence of neighbouring structures • Heat gains from internal activities and occupants • Impact of systems controls on the energy consumption of the building (including energy consumption of controlling devices) • Inclusion of both primary and secondary space and water heating and cooling systems 	<p>N/A</p>	<p>RT 2005</p> <p>Note for retail buildings: lighting power reference definition in RT 2005 is not adequate for shopping centres. Performing level as defined by Referentiel QEB Commerces from December 2008 preoccupation 4.2.3 page 36 to be used instead and percentage improvement to be calculated on this basis. All other criteria defining the reference building (e.g. U-Values etc) must be compliant with the French building regulations and the RT2005 calculation methodology.</p> <p>N/A</p>

		<ul style="list-style-type: none"> • Space heating: <ul style="list-style-type: none"> a) Demand, including heat losses and heat gains b) Generation and energy requirements of supporting technologies (including LZC, district heating, CHP or other technologies used in the building). • Space cooling: <ul style="list-style-type: none"> a) Demand, including heat gains b) Generation and energy requirements of supporting technologies (including LZC, district heating, CHP or other technologies used in the building). <p>Evidence confirming the assessable building types and climates the software deals with.</p> <p>Evidence confirming Testing:</p> <ul style="list-style-type: none"> • the software has been tested according to the BESTEST set or, alternatively, EN 15265. • the software has been tested according to ANSI/ASHRAE Standard 140-2004. 		
Ene 6	National thermographic best practice standard	<p>Requirements for the infrared radiation sensing system</p> <p>General thermographic test requirements</p> <p>Test procedure</p> <p>Evaluation of thermograms</p> <p>Thermographic report requirements</p>	CEN EN 13187 Thermal performance of buildings, "Qualitative detection of thermal irregularities in building envelopes. Infrared method".	
Ene 7	ECA Energy Technology Product list	Set of energy-saving eligibility criteria published and reviewed on an annual basis to reflect best practice		
Tra 3	Local standard defining "net lettable area / useable floor area"	Gross internal floor area excluding all internal structural and party walls (but not partitioning or other non load-bearing walls within the tenancy area which are included in the area), ancillary areas for services, ancillary areas to main function areas and circulation areas.		"Surface utile nette" as defined in the French building regulations.
Tra 4	National best practice road lighting guide	<p>Minimum and average maintained illuminance levels for pedestrian pathways and cycle paths</p> <p>Appearance and environmental aspects to be considered in the design (e.g colour rendering)</p>	CEN EN 12464-2 Lighting of work places - Part 2: Outdoor work places, 2007	NF EN 12464:2008 "Light and lighting – Lighting of work places – Part 2 Outdoor work places".
Mat 1	Nationally recognised LCA tool	<p>PLEASE NOTE: the requirements are indicative of the initial type of information that BRE Global will be looking at. If required BRE Global will request further information before a decision can be made. Due to the multitude of tools available it was not possible to define further requirements in this table.</p> <p>Evidence confirming the Environmental Indicators that are being used in the analysis.</p> <p>Evidence attesting that the tool addresses the whole life cycle of the building, including service life and disposal.</p> <p>Evidence confirming that the tool is based on LCA principles, as set out in the following International Standards:</p> <ul style="list-style-type: none"> • ISO 14040 2006 Environmental Management -LCA- Principles & Framework • ISO 14044 2006 Environmental Management - LCA Requirements and guidelines • ISO 14025: 2006 Environmental labels and declarations — Type III environmental declarations — Principles and procedures • ISO 21930 2006 Building construction - Sustainability in building construction – Environmental declaration of building products 	N/A	N/A
LE2	Guidance on land decontamination	As per checklist A16	N/A	<p>ADEME http://www.sites-pollues.ecologie.gouv.fr/DocumentsTechniques.asp</p> <p>Traitabilité des sols pollués : Guide méthodologique pour la sélection des techniques et l'évaluation de leurs performances, ADEME</p>
Pol 5	National water authority - flooding	<p>Define flood risk</p> <p>Develop flood maps</p>	N/A	Flood zones are defined by the PPRI : Plan de Prévention des Risques d'Inondation (In France, flood risk zoning is developed by local councils based on 100-years return floods and rarely considered equivalent 1000-years return floods. This risk assessment is part of the local regulatory urban planning document)
	National meteorological institute	Figures for rainfall	N/A	Meteo France
Pol 8	National best practice acoustics measurement guide	<p>Definitions</p> <p>General principles of acoustic measurement</p> <p>Measurement methods (equipment, external conditions (weather etc), frequency of measurement etc)</p> <p>Reporting</p>	ISO 1996-1:2003 Acoustics -- Description, measurement and assessment of environmental noise	NFS 31-010: 1996: "caracterisation et mesurage des bruits de l'environnement"