

## BREEAM UK New Construction 2018 Scheme: Summary of changes between 2014 and 2018 versions

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<b>Management</b>										
Man 01	Project brief and design	2014	4	-	-	1	1	1	Y (SB)	AP credit is now based on the results of the Sustainability Champion Consultation and the new Advisory Professional role.
		2018	Max. 4 (assessment type dependent)	-	-	-	-	-	Y (SB)	
Man 02	Life cycle cost and service life planning	2014	4	-	-	-	-	-	-	No significant changes.
		2018	Max. 4 (assessment type dependent)	-	-	-	-	-	-	
Man 03	Responsible construction practices	2014	6	Criterion 2	Criterion 2	Criterion 2	Criterion 2 1 credit	Criterion 2 2 credits	Y	<ol style="list-style-type: none"> <li>AP credit is now based on the results of the Sustainability Champion Consultation and the new Advisory Professional role.</li> <li>Considerate Construction credit amended to Responsible Construction Management. The issue has become more outcome focused and it defines specific requirements, including vehicle movement and health and safety. CCS or other schemes can still contribute to awarding some credits. More information will be given in Guidance Note 33 (to be published).</li> <li>Targets need to be set for construction site impacts. This target setting is a pre-requisite for the AP credits</li> </ol>
		2018	Max. 6 (assessment type dependent)	-	-	-	1 (responsible construction management)	2 (responsible construction management)	Y	
Man 04	Commissioning and handover	2014	4	-	-	-	Criterion 9	Criterion 9	-	Handover requirements amended to require separate building user guide and training for occupiers and premises managers.
		2018	Max. 4 (assessment type dependent)	-	-	1 (commissioning - test schedule and responsibilities) 11 (building user guide)	1 (commissioning - test schedule and responsibilities) 11 (building user guide)	1 (commissioning - test schedule and responsibilities) 11 (building user guide)	-	
Man 05	Aftercare	2014	3	-	-	-	1	1	Y	<ol style="list-style-type: none"> <li>Removal of the post occupancy evaluation (POE) dissemination requirement, and new requirement for funds to be committed to achieving the POE.</li> <li>Exemplary credit removed.</li> </ol>
		2018	Max 3. (assessment type dependent)	-	-	-	1 (commissioning - implementation)	1 (commissioning - implementation)	-	
<b>Health and Wellbeing</b>										
Hea 01	Visual comfort	2014	Max. 6 (building type dependent)	-	-	-	-	-	Y	<ol style="list-style-type: none"> <li>Glare control now requires a glare control assessment to demonstrate areas where glare will, and will not be an issue.</li> <li>Daylighting: number of credits for multi-residential assessments has changed. Prisons, offices and crèches are now separate building types.</li> <li>Daylighting for Healthcare buildings has now changed. The two credits are now tiered, and there is an alternative approach available based on median and minimum daylight factors.</li> <li>View out: now assessed for 95% of relevant building areas, instead of 100%.</li> <li>New Exemplary level credit for internal lighting levels.</li> </ol>
		2018	Max 6 (building type dependent)	-	-	-	-	-	Y	
Hea 02	Indoor air quality	2014	Max. 5 (building type dependent)	-	-	-	-	-	Y	<ol style="list-style-type: none"> <li>Indoor air quality plan is now a prerequisite, not a separate credit.</li> <li>Indoor air quality plan also has a new criterion for consideration of air quality in specialist areas, such as laboratories.</li> <li>Changes to ventilation credit, including additional routes for compliance.</li> <li>Updated standards for VOC emissions from building products. Credits available are tiered based on the number of products that comply.</li> <li>New TVOC benchmarks.</li> </ol>
		2018	4	-	-	-	-	-	Y	
Hea 03	Safe containment in laboratories	2014	Max. 2 (building type dependent)	-	-	-	-	-	-	Assessment of air quality in laboratories is now a requirement of the Indoor Air Quality (IAQ) Plan pre-requisite of Hea 02 Indoor air quality.
	No Hea 03 in scheme	2018	x	x	x	x	x	x	x	
Hea 04	Thermal comfort	2014	3	-	-	-	-	-	-	1. Design for future thermal comfort criteria now requires use of new CIBSE 2016 weather files
		2018	3	-	-	-	-	-	-	
Hea 05	Acoustic performance	2014	Max. 4 (building type dependent)	-	-	-	-	-	-	1. All building types now need to follow acoustic principles. All building types have three credits available apart from residential institutions which has four.
		2018	Max. 4 (building type dependent)	-	-	-	-	-	-	
Hea 06	Safety and security	2014	2	-	-	-	-	-	-	<ol style="list-style-type: none"> <li>Hea 06 now specifically relates to security only. Safety criteria has been moved to Hea 07.</li> <li>Exemplary level credit now available.</li> <li>Suitably Qualified Security Specialist definition updated.</li> </ol>
	Security	2018	1	-	-	-	-	-	Y	
Hea 07	Safe and healthy surroundings	-	x	x	x	x	x	x	x	<ol style="list-style-type: none"> <li>New issue, partly from Hea 06.</li> <li>Safe access criteria updated from Hea 06.</li> <li>New credit for assessment of Outside Space</li> </ol>
		2018	2	-	-	-	-	-	-	

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Energy										
Ene 01	Reduction of energy use and carbon emissions	2014	12	-	-	-	5	8	Y	1. All assessment types have nine credits available. 2. Shell Only assessments only have these nine credits available; other assessment types have four additional credits available for Prediction of Operational Energy Consumption (POEC). 3. New EPRNC benchmarks. 4. POEC credits are available for undertaking additional design and post construction stage energy modelling and reporting consumption targets. 5. Up to five exemplary credits are available for all assessment types other than Shell Only. New benchmarks have been set (three credits), and there is a new Post-occupancy Stage (two credits). 6. Definition removed for Renewable Obligation Certificates. 7. Simple buildings have 9 standard credits available for EPR. 7 Exemplary credits are available; 2 for meeting the POEC requirements and the five Exemplary credits for Carbon Negative and Post-occupancy Stage.
		2018	Max. 13 (assessment type dependent)	-	-	-	4 (energy performance)	6 (energy performance) and 4 (energy modelling and reporting)	Y	
Ene 02	Energy monitoring	2014	Max. 2 (building type dependent)	-	-	1	1	1	-	New criterion for sub-metering of high energy load and tenancy areas for single occupancy buildings.
		2018	2 (assessment type dependent)	-	-	1 (first sub-metering credit)	1 (first sub-metering credit)	1 (first sub-metering credit)	-	
Ene 03	External lighting	2014	1	-	-	-	-	-	-	Benchmark updated for average luminous efficacy.
		2018	1	-	-	-	-	-	-	
Ene 04	Low carbon design	2014	3	-	-	-	-	-	-	1. Passive design analysis and Low zero carbon feasibility study criteria amended. 'Meaningful reduction' in energy is not now needed; the reduction needs to be quantified. 2. Free cooling credit now only available to naturally ventilated buildings.
		2018	3	-	-	-	-	-	-	
Ene 05	Energy efficient cold storage	2014	Max. 2 (building type dependent)	-	-	-	-	-	-	No significant changes.
		2018	2 (assessment type dependent)	-	-	-	-	-	-	
Ene 06	Energy efficient transportation systems	2014	Max. 3 (building type dependent)	-	-	-	-	-	-	No significant changes.
		2018	Max. 3 (assessment type dependent)	-	-	-	-	-	-	
Ene 07	Energy efficient laboratory systems	2014	Max. 5 (building type dependent)	-	-	-	-	-	-	Pre-requisite to meet Hea 03 requirements removed.
		2018	Max. 5 (building type dependent)	-	-	-	-	-	-	
Ene 08	Energy effect equipment	2014	2	-	-	-	-	-	-	1. Small power has been removed as an entry in the Examples of solutions table. Small power can still be considered the significant contributing unregulated energy consumption of the building and assessed as such. 2. Ene 08 now not applicable where there will be no unregulated energy consumption. 3. Drying space requirements from Ene 09 have been incorporated into Ene 08.
		2018	2 (assessment type dependent)	-	-	-	-	-	-	
Ene 09	Drying space No ene 09 in scheme	2014	1	-	-	-	-	-	-	Drying space has been incorporated into the assessment of Ene 08.
		2018	x	x	x	x	x	x	x	

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<b>Transport</b>										
Tra 01	Public transport accessibility	2014	Max. 5 (building type dependent)	-	-	-	-	-	-	Category restructured. New Issue incorporates Travel plan requirements and the reporting of the existing site's Accessibility Index and Accessible amenities to reflect the transport situation prior to the development. Number of credits reduced to 2.
	Transport assessment and travel plan	2018	2	x	x	x	x	x	x	
Tra 02	Proximity to amenities	2014	Max. 2 (building type dependent)	-	-	-	-	-	-	Tra 01 as pre-requisite. New Issue requires implementation of sustainable transport measures based on the analysis of the existing situation, to improve on it. Number of credits increased to 10.
	Sustainable transport measures	2018	10	x	x	x	x	x	x	
Tra 03	Cyclist facilities	2014	Max. 3 (building type dependent)	-	-	-	-	-	-	
	No Tra 03 in scheme	2018	x	x	x	x	x	x	x	
Tra 04	Maximum car parking capacity	2014	Max. 2 (building type dependent)	-	-	-	-	-	-	
	No Tra 04 in scheme	2018	x	x	x	x	x	x	x	
Tra 05	Travel plan	2014	1	-	-	-	-	-	-	
	No Tra 05 in scheme	2018	x	x	x	x	x	x	x	
<b>Water</b>										
Wat 01	Water consumption	2014	5	-	1	1	1	2	Y	1. Benchmarks updated for the Alternative Wat 01 calculation, and Methodology now allows actual specification performance to be used. 2. Increased flexibility of assessment and scope provided for Healthcare buildings.
		2018	5 (assessment type dependent)	-	1	1	1	2	Y	
Wat 02	Water monitoring	2014	1	-	Criterion 1	Criterion 1	Criterion 1	Criterion 1	-	No significant changes.
		2018	1	-	Criterion 1	Criterion 1	Criterion 1	Criterion 1	-	
Wat 03	Water leak detection	2014	2	-	-	-	-	-	-	No significant changes.
		2018	2	-	-	-	-	-	-	
Wat 04	Water efficient equipment	2014	1	-	-	-	-	-	-	No significant changes.
		2018	1	-	-	-	-	-	-	
<b>Materials</b>										
Mat 01	Life cycle impacts	2014	Max. 6 (building type dependent)	-	-	-	-	-	Y	Mat 01 substantially changed. It now brings assessment of hard landscaping (Mat 02) and insulation (Mat 04) into Mat 01.
	Environmental impacts from construction products - Building life cycle assessment	2018	7	-	-	-	-	-	Y	
Mat 02	Hard landscaping and boundary protection	2014	1	-	-	-	-	-	-	Hard landscaping and boundary protection has been incorporated into the assessment of Mat 01 (i.e. part of whole building life cycle assessment). Mat 02 focusses on encouraging Environmental Product Declarations on construction products.
	Environmental impacts from construction products	2018	1	-	-	-	-	-	-	
Mat 03	Responsible sourcing of materials	2014	4	Criterion 1	Criterion 1	Criterion 1	Criterion 1	Criterion 1	Y	1. The Methodology and required definitions from the International 2016 scheme have been incorporated into the 2018 scheme. 2. Reference to Guidance Note 24 is now made. 3. The benchmarks for achieving credits have been reduced.
		2018	4	Criterion 1	Criterion 1	Criterion 1	Criterion 1	Criterion 1	Y	
Mat 04	Insulation	2014	1	-	-	-	-	-	-	Assessment of Insulation products has been incorporated into Mat 01 (i.e. part of whole building life cycle assessment).
	No Mat 04 in scheme	2018	x	x	x	x	x	x	x	
Mat 05	Designing for durability and resilience	2014	1	-	-	-	-	-	-	1. Protection measures for malicious damage added. 2. Requirements now more detailed regarding material degradation. This uses BS 7543:2015 as the default standard, but the design team need to conduct a detailed assessment of materials' degradation due to environmental factors.
		2018	1	-	-	-	-	-	-	
Mat 06	Material efficiency	2014	1	-	-	-	-	-	-	Inclusion of 'Examples of material efficiencies at each work stage' table from International 2016.
		2018	1	-	-	-	-	-	-	

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<b>Waste</b>										
Wst 01	Construction waste management	2014	4	-	-	-	-	1	Y	1. Extra credit available for pre-demolition audit. 2. Data from external waste contractors needs to be reliable and verifiable for the Exemplary credit.
		2018	5	-	-	-	-	1	Y	
Wst 02	Recycled aggregate Use of recycled and sustainably sourced aggregates	2014	1	-	-	-	-	-	Y	1. All aggregates used now assessed. 2. Aggregate selection now assessed in more detail.
		2018	1	-	-	-	-	-	Y	
Wst 03	Operational waste	2014	1	-	-	-	1	1	-	Dwellings with communal facilities must provide compostable waste storage.
		2018	1	-	-	-	1	1	-	
Wst 04	Speculative floor and ceiling finishes	2014	1	-	-	-	-	-	-	No significant changes.
		2018	1	-	-	-	-	-	-	
Wst 05	Adaptation to climate change	2014	1	-	-	-	-	-	Y	Scope of assessment now includes building services.
		2018	1	-	-	-	-	-	Y	
Wst 06	Functional adaptability Design for disassembly and adaptability	2014	1	-	-	-	-	-	-	1. Title and scope of issue includes disassembly and adaptability. 2. Two credits now available. One for recommendations and one for implementation
		2018	2	-	-	-	-	-	-	
<b>Land Use and Ecology</b>										
LE 01	Site selection	2014	2	-	-	-	-	-	-	No significant changes.
		2018	2	-	-	-	-	-	-	
LE 02	Ecological value of site and protection of ecological features Identifying and understanding the risks and opportunities for the project	2014	2	-	-	-	-	-	-	LE02-LE05 have been completely re-written. 1. Criteria now focus on the understanding the ecological baseline of the site, and the risks and opportunities for the project.
		2018	Max 2 (assessment route dependant)	-	-	-	-	-	Y	
LE 03	Minimising impact on existing site ecology Managing negative impacts on ecology	2014	2	-	-	1	1	1	-	LE02-LE05 have been completely re-written. 1. Criteria rewards the use of the hierarchy for managing negative impacts on the site, by considering, avoidance, protection, reduction/limitation of damage and then compensation.
		2018	Max 3 (assessment route dependant)	-	-	-	-	-	-	
LE 04	Enhancing site ecology Change and enhancement of ecological value	2014	Max. 2 (building type dependent)	-	-	-	-	-	-	LE02-LE05 have been completely re-written. 1. Criteria rewards measures/solutions taken to enhance the ecology on the site.
		2018	Max 4 (assessment route dependant)	-	-	-	-	-	-	
LE 05	Long term impact on biodiversity Long term ecology management and maintenance	2014	2	-	-	-	-	-	-	LE02-LE05 have been completely re-written. 1. Criteria focuses on the management and maintenance of new and existing ecological features.
		2018	Max 2 (assessment route dependant)	-	-	-	-	-	-	
<b>Pollution</b>										
Pol 01	Impact of refrigerants	2014	3	-	-	-	-	-	-	No significant changes.
		2018	3	-	-	-	-	-	-	
Pol 02	NOx emissions Local air quality	2014	Max. 3 (building type dependent)	-	-	-	-	-	-	1. Aim of issue now local air quality. NOx, VOCs and particulate matter emissions assessed. 2. Benchmarks for NOx revised. All emission benchmarks are percentage improvements on EU legislative maximums.
		2018	2	-	-	-	-	-	-	
Pol 03	Surface water run-off Flood and surface water management	2014	5	-	-	-	-	-	Y (SB)	1. Appointment of an appropriate consultant now a pre-requisite for any credits to be achieved. 2. 30% improvement now required for surface water run-off credits. 3. Water pollution prevention systems must be bespoke, taking account of the specific site requirements and natural or man-made environment of and surrounding the site. 4. Surface Water Run-off requirements for Simple Buildings amended.
		2018	5	-	-	-	-	-	Y (SB)	
Pol 04	Reduction of night time light pollution	2014	1	-	-	-	-	-	-	No significant changes.
		2018	1	-	-	-	-	-	-	
Pol 05	Reduction of noise pollution	2014	1	-	-	-	-	-	-	If the assessment is of an extension, the services on the existing building must be included as background noise.
		2018	1	-	-	-	-	-	-	