

This document is a Bespoke project specific appendix to the BREEAM-NOR New Construction 2016 technical manual. The document determines, for specific BREEAM-NOR issues, which criteria and compliance requirements (from the master manual) are applicable to the project (named below). It must therefore be read in conjunction with the master BREEAM-NOR New Construction manual (available from [www.ngbc.no](http://www.ngbc.no)) and the BREEAM-NOR Bespoke 2016 Assessment Scoring & Reporting Tool issued for this project.

For projects where an assessor is not yet appointed, the BREEAM-NOR New Construction 2016 manual will be issued to the client with the project specific BREEAM-NOR Bespoke 2016 criteria appendix.

The BREEAM-NOR Bespoke 2016 Assessment Scoring & Reporting Tool details the BREEAM-NOR issues that are included in the assessment of the building (named below), and this appendix determines which criteria and compliance requirements need to be considered.

Please only assess the BREEAM-NOR issues as specified in the BREEAM-NOR Bespoke 2016 Assessment Scoring & Reporting Tool in line with guidance in this BREEAM-NOR Bespoke criteria appendix for this project.

## Project Details

<b>Project Name</b>	Spjelkavik arena
<b>Project Proposal Number</b>	
<b>Building Name</b>	Spjelkavik arena
<b>BRE Reference Number</b>	
<b>Project Status</b>	
<b>Date Issued</b>	09.06.2020

## Manual Criteria Clarifications

Issue	Issue Name	Relevant Criteria
<b>Management</b>		
<b>Man 01</b>	<b>Project brief and design</b>	For Stakeholder Consultation (third party) credit: Please note relevant parties for your project should also include specialist service and maintenance contractors/representatives (as the building function has particular technical requirements).

Issue	Issue Name	Relevant Criteria
Man 02	Life cycle cost and service life planning	
Man 03	Responsible construction practices	
Man 04	Commissioning and handover	
Man 05	Aftercare	
<b>Health &amp; Wellbeing</b>		
Hea 01	Visual comfort	<p>Please refer to the assessment criteria for non-residential buildings.</p> <p><u>Daylight:</u></p> <p>For the purpose of BREEAM this is defined as areas within the building where good daylighting is considered to be of benefit to the building users (typically those areas occupied continuously for 30 minutes or more). In addition to SN2, this includes the following (where occupied continuously for 30 minutes or more) specifically stated because they are often omitted:</p> <ol style="list-style-type: none"> <li>1.Sports hall exercise spaces (with or without swimming pool),</li> <li>2.Leisure areas</li> </ol> <p><u>For Glare:</u></p> <p>For glare control include areas of the building where lighting and resultant glare could be problematic for users, e.g. those areas that have been designed to contain or use workstations, projector screens etc. and sports halls (with or without swimming pool).</p> <p><u>For View out:</u></p> <p>Excluded areas might include:</p> <p>Conference rooms, lecture theatres, sports halls (with or without swimming pool), acute SEN and also any spaces where the exclusion or limitation of natural light is a functional requirement, e.g. laboratories, media spaces, etc.</p> <p><u>For Internal and external lighting credit:</u></p> <p>For areas with an expected high proportion of visitors, the user control is compliant if the staff can control it.</p> <p>The following internal areas are excluded from the lighting zone requirements:</p> <ul style="list-style-type: none"> <li>- Sports facilities (exercise spaces only, including hydrotherapy and physiotherapy areas).</li> </ul>
Hea 02	Indoor air quality	<p><u>Potential for natural ventilation:</u></p> <p>The following building areas, where relevant to the building type, can be excluded from the definition of occupied spaces for</p>

Issue	Issue Name	Relevant Criteria
		<p>the potential for natural ventilation criteria:</p> <ol style="list-style-type: none"> <li>1. Ancillary building areas, e.g. WCs, corridors, stairwells, store rooms, plant rooms</li> <li>2. Swimming or hydrotherapy pools</li> <li>3. Sauna, steam room</li> <li>4. Catering and small staff kitchens</li> <li>5. Washrooms or changing areas</li> </ol> <p><u>Laboratory fume cupboard and containment areas</u> These req. are not applicable</p>
Hea 03	Thermal comfort	<p>For this issue occupant controls are intended to be for staff-use only.</p> <p>Operational and storage areas do not need to comply with these requirements.</p>
Hea 04	Microbial contamination	
Hea 05	Acoustic performance	Please refer to the assessment criteria for non-residential buildings.
Hea 06	Safe access	Please refer to the assessment criteria for non-residential buildings.
Hea 07	Natural hazards	
Hea 08	Private space	Not applicable
Hea 09	Moisture protection	
<b>Energy</b>		
Ene 01	Energy efficiency	Please refer to the assessment criteria for non-residential buildings.
Ene 02a	Energy monitoring	<p>Relevant areas include:</p> <ol style="list-style-type: none"> <li>1. Office areas</li> <li>2. Catering (kitchens or restaurant)</li> <li>3. Swimming pool or leisure facilities</li> </ol>
Ene 02b	Energy monitoring	These req. are not applicable
Ene 03	External lighting	
Ene 04	Low and zero carbon technologies	

Issue	Issue Name	Relevant Criteria
Ene 05	Energy efficient cold storage	These req. are not applicable
Ene 06	Energy efficient transportation systems	
Ene 07	Energy Efficient Laboratory System	These req. are not applicable
Ene 08	Energy efficient equipment	
Ene 09	Drying space	These req. are not applicable
Ene 23	Energy performance of building structure	
<b>Transport</b>		
Tra 01	Public transport accessibility	<p>For this issue, the building is defined as Type 2 and 3 credits is available.</p> <p>If the opening hours are unknown, please use the following default hours of operation on a typical day OR justify alternative assumptions.</p> <p>Building Type Default hours 24-hours 7.00am-20.00pm</p>
Tra 02	Proximity to amenities	The building is defined as Type 2.
Tra 03a	Alternative modes of transport	<p>For Option 5 of this issue, the building is defined as Type 2.</p> <p>For the assessment of assessment criterion 11 building users should be defined as staff and visitors. If known, or can be reasonably estimated, project specific occupancy figures should be used. If this is not possible, for example where the building is a speculative project, use the default occupancy rates given in asv below to determine the number of users. Where the number of building users is variable, provision of bicycle parking spaces should be based on the maximum number of building users likely to be using the building at any time during a typical day.</p> <p>Occupancy rate: 0,1 (person/m2)</p>

Issue	Issue Name	Relevant Criteria
		<p>For the first credit please refer to the assessment criteria 11a-f.</p> <p>Where the visitors profile is elderly or physical disabled/impaired then, where appropriate, the requirement for compliant cycle spaces should be changed to compliant wheelchair/electric buggy spaces.</p> <p>Compliant wheelchair/electric buggy spaces are defined as:</p> <p>Compliant wheelchair and buggy storage facilities are those that meet the following:</p> <ol style="list-style-type: none"> <li>1. Charging points for electric buggies (at least 2) provided within the storage space</li> <li>2. The storage area must be secure yet easily accessible to both the internal and external parts of the building e.g. direct access to the outside.</li> <li>3. Direct access from the storage space into the interior of the building without having to return outside must be provided.</li> <li>4. Lighting of the storage facility must be compliant with the external (or internal where relevant) lighting criteria defined in BREEAM-NOR issue Hea 01 Visual comfort. The lighting must be controlled to avoid 'out-of-hours' use and operation during daylight hours, where there is sufficient daylight in/around the facility.</li> <li>5. Where access to and from the building main entrance needs to be tightly controlled for the safety/security of residents, and it can be demonstrated that compliance with points 2 and 3 above impact on this (e.g. where residents include those with mental health problems), these 2 items can be excluded from the compliance requirements.</li> </ol>
<b>Tra 03b</b>	<b>Alternative modes of transport</b>	Not applicable.
<b>Tra 04</b>	<b>Maximum car parking capacity</b>	For this issue, the building is defined as Type 2. Building users are defined in TRA03a.
<b>Tra 05</b>	<b>Travel plan</b>	<p>For this assessment, building users (SN2) should be defined as: Where the term 'building users' is used, this refers to the following, as appropriate to building type:</p> <ol style="list-style-type: none"> <li>1. Staff (commuter journeys and business travel)</li> <li>2. Visitors</li> <li>4. Customers</li> <li>5. People who make deliveries or collections to and from the development</li> <li>6. Contractors and service providers, who regularly work at and access the building or development</li> </ol>
<b>Tra 06</b>	<b>Home office</b>	Not applicable.

Water

Issue	Issue Name	Relevant Criteria
Wat 01	Water consumption	<p>Please use Wat 01 “Other building type calculator” (tab within calculator tool) and the option “Hotels and Residential institutions – Short term stay”.</p> <p>In addition to meeting an overall percentage improvement level, the flushing control for each WC/urinal must be suitable for operation by patients with frail or infirm hands or activated by electronic sensors.</p>
Wat 02	Water monitoring	
Wat 03	Water leak detection and prevention	
Wat 04	Water efficient equipment	
<b>Materials</b>		
Mat 01	Life cycle impacts	
Mat 03	Responsible sourcing of materials	
Mat 05	Designing for robustness	
<b>Waste</b>		
Wst 01	Construction waste management	
Wst 02	Recycled aggregates	
Wst 03a	Operational waste	
Wst 03b	Operational waste	Not applicable.
Wst 04	Speculative floor & ceiling finishes	Not applicable.
<b>Land Use &amp; Ecology</b>		
LE 01	Site selection	

<b>Issue</b>	<b>Issue Name</b>	<b>Relevant Criteria</b>
<b>LE 02</b>	<b>Ecological value of site and protection of ecological features</b>	
<b>LE 04</b>	<b>Enhancing site ecology</b>	
<b>LE 05</b>	<b>Long term impact on biodiversity</b>	
<b>LE 06</b>	<b>Building footprint</b>	Not applicable.
<b>Pollution</b>		
<b>Pol 01</b>	<b>Impact of refrigerants</b>	
<b>Pol 02</b>	<b>NOx emissions</b>	
<b>Pol 03</b>	<b>Surface water run-off</b>	
<b>Pol 04</b>	<b>Reduction of night time light pollution</b>	
<b>Pol 05</b>	<b>Reduction of noise pollution</b>	
No further guidance required. Please refer to the BREEAM Nor 2016 manual and BREEAM Nor 2016 Scoring & Reporting tool issued for this project.		