

Part 6 Carbon Emission of Development

NRB 6-1 Carbon Footprint of Development

Actual Assessment Submission ☐Site Verification Submission ☐

Criteria	Credit Available	Credit Claimed
(a) Computation of carbon footprint based on building's energy and water consumption	1	
(b) Calculation of product stage embodied carbon.	0.5	
(c) Calculation of construction stage embodied carbon.	0.5	
(d) Reduction from reference embodied carbon.	1	

Strategies:

Documentary Evidences:

Order of documents to be submitted accordingly and clearly labeled.

Actual Assessment	Submitter	Assessor
<i>6-1 (a) Computation of carbon footprint based on building's energy and water consumption</i>		
1. Detail calculation for the estimated energy load for each component in the building e.g.: lighting, air-conditioning system, pump, receptacle load.	<input type="checkbox"/>	<input type="checkbox"/>
2. Details calculation for estimated water consumption of the building e.g.: water fittings, landscape, water features.	<input type="checkbox"/>	<input type="checkbox"/>
3. Technical product information on the energy efficient features and water efficient features used.	<input type="checkbox"/>	<input type="checkbox"/>
4. Summary tabulation of estimated total energy savings and total water savings of the development for the year.	<input type="checkbox"/>	<input type="checkbox"/>
5. Carbon emission calculation.	<input type="checkbox"/>	<input type="checkbox"/>
<i>6-1(b) Embodied carbon footprint calculation</i>		
1. Embodied carbon footprint calculation.	<input type="checkbox"/>	<input type="checkbox"/>
<i>6-1(c) Construction stage embodied carbon calculation</i>		
1. Calculation of construction stage embodied carbon.	<input type="checkbox"/>	<input type="checkbox"/>
<i>6-1 (d) Reduction from reference embodied carbon.</i>		
1. Calculation showing the reduction from reference embodied carbon (for Ready Mix Concrete, Cement, Steel Reinforcement, Bricks, Steel & Metal).	<input type="checkbox"/>	<input type="checkbox"/>

Site Verification	Submitter	Assessor
<i>6-1 (a) Computation of carbon footprint based on building's energy and water consumption</i>		
1. Detail calculation for the estimated energy load for each component in the building e.g.: lighting, air-conditioning system, pump, receptacle load.	<input type="checkbox"/>	<input type="checkbox"/>
2. Detailed calculation for estimated water consumption of the building e.g.: water fittings, landscape, water features.	<input type="checkbox"/>	<input type="checkbox"/>
3. As installed technical product information with its purchase and delivery orders on the energy efficient features and water efficient features.	<input type="checkbox"/>	<input type="checkbox"/>
4. Electricity and water bills of the development for at least 6 months of operational period.	<input type="checkbox"/>	<input type="checkbox"/>
5. Summary tabulation of estimated total energy savings and total water savings of the development for the year.	<input type="checkbox"/>	<input type="checkbox"/>
6. Determine the actual carbon emission report as compared to the design carbon emission report to demonstrate the actual carbon emission savings.	<input type="checkbox"/>	<input type="checkbox"/>
7. Describe any deviations or changes to the AA submission.	<input type="checkbox"/>	<input type="checkbox"/>
<i>6-1(b) Embodied carbon footprint calculation</i>		
1. Embodied carbon footprint calculation.	<input type="checkbox"/>	<input type="checkbox"/>
2. Describe any deviations or changes to the AA submission.	<input type="checkbox"/>	<input type="checkbox"/>
<i>6-1(c) Construction stage embodied carbon calculation</i>		
1. Calculation of construction stage embodied carbon.	<input type="checkbox"/>	<input type="checkbox"/>
2. Describe any deviations or changes to the AA submission.	<input type="checkbox"/>	<input type="checkbox"/>

6-2 (d) Reduction from reference embodied carbon.

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|---|--------------------------|--------------------------|
| 1. Calculation showing the reduction from reference embodied carbon (for Ready Mix Concrete, Cement, Steel Reinforcement, Bricks, Steel & Metal). | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Describe any deviations or changes to the AA submission. | <input type="checkbox"/> | <input type="checkbox"/> |