

LOW-CARBON BUILDING METHOD v4

Addenda

Last updated: Feb. 23, 2017

Page	Paragraph	Change
9	B4	<p>The term “emissions” in this paragraph shall be replaced by “emissions and removals”.</p> <p><i>Reason for change:</i> <i>Clarification. Carbon emissions and removals shall both be considered when assessing “materiality”.</i></p>
20	C4	<p>EFtranswaste, i</p> <p>Replace “Assume that the trucks are empty on their return trips” by “Assume that the trucks are empty when traveling to the project site”.</p>
21	C5	<p>Li</p> <p>Add: “For reused materials, Li is the number of years the material is anticipated to be on the project”.</p>
22	C6	<p>Equation 9 shall be modified as follows:</p> $R_{\text{storage}} = (-1) \times \sum_{i=1}^n (W_{\text{mat}, i} \times \delta_{\text{cs}, i} \times k_{\text{cs}, i} \times (1 - \delta_{\text{rec}, i}) \times (N_i + 1))$ <p><u>Where:</u> R_{storage}: carbon storage; n: total number of materials included in the assessment; W_{mat, i}: weight of material i; δ_{cs, i}: proportion (wt-%) of component material eligible for carbon storage contained in material i; K_{cs, i}: carbon storage potential of the component material eligible for carbon storage contained in material i; δ_{rec, i}: proportion (wt-%) of material i sent to recycling;</p>

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		<p>N_i: expected number of replacement instances of material i (see equation 8).</p> <p>Note: If a material contains more than one component material having the ability to store carbon, equation 9 shall be modified as follows: $\delta_{cs, i} \times K_{cs, i}$ shall be replaced by $(\delta_{cs1, i} \times K_{cs1, i} + \delta_{cs2, i} \times K_{cs2, i} + \dots)$.</p> <p>$\delta_{cs, i}$ Consider the actual proportion (by weight) of component material eligible for carbon storage contained in material i.</p> <p>Materials eligible for carbon storage include:</p> <ul style="list-style-type: none"> • Cement; • Wood; • Other materials of biogenic origin (e.g., sheep wool, straw, cotton, etc.). <p>To be eligible for carbon storage, wood materials shall come from “well-managed” forests (see definition in Appendix A). Wood materials certified under the following schemes are considered eligible:</p> <ul style="list-style-type: none"> • Forest Stewardship Council (FSC); • Programme for the Endorsement of Forest Certification (PEFC). <p>Other schemes certifying sustainable forest development may also be considered.</p> <p>$K_{cs, i}$ Consider the carbon storage potential of the component material eligible for carbon storage contained in material i. Use the default values below:</p> <ul style="list-style-type: none"> • Cement: 0.08; • Fly ash: 0.03; • Slag (GGBS): 0.05; • Wood and other plants (e.g., straw, cotton, etc.): 1.56; • Sheep wool: 1.83. <p><i>Reason for change:</i> <i>Simplification. The equation in its new format also allows for the consideration of other materials eligible for carbon storage in addition to just concrete and wood.</i></p>

[End of addenda]