

ICC-ES SAVE: Verification of Attributes Report™
VAR-1008*

Issued September 1, 2009

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DIVISION: 06—WOOD AND PLASTIC
Section: 06 17 00—Shop-Fabricated Structural Wood
Section: 06170—Prefabricated Structural Wood

REPORT HOLDER:

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EVALUATION SUBJECT:

Structural Wood Products:

iLevel® Trus Joist® TJI® Joist
 iLevel® Trus Joist® TimberStrand® LSL
 iLevel® Trus Joist® Parallam® PSL
 Parallam® Plus PSL
 iLevel® Trus Joist® Microllam® LVL
 iLevel® Shear Brace
 iLevel® Trus Joist® StrandGuard® TimberStrand® LSL
 iLevel® Framers Series® Performance Tested Lumber
 Weyerhaeuser® Lumber
 Weyerhaeuser® Green Stud
 iLevel® Edge™ Engineered Wood Panels
 iLevel® Edge Gold™ Engineered Wood Panels
 iLevel® Radiant Barrier Sheathing
 Weyerhaeuser® Sheathing
 Weyerhaeuser® Plywood

Building Optimization Software:

iLevel® Javelin® Software
 TJ-Xpert® Software
 NextPhase® Site Solutions

1.0 EVALUATION SCOPE
Compliance with the following evaluation guidelines:

- ICC-ES Evaluation Guideline for Determination of Biobased Material Content (EG102), dated October 2008

iLevel®, Microllam®, Parallam®, TimberStrand®, StrandGuard®, Trus Joist®, TJI®, iLevel Framers Series®, Javelin®, TJ-Xpert® and NextPhase® are registered trademarks, and Edge™ and Edge Gold™ are trademarks of Weyerhaeuser NR Company.

*Revised November 2009

- ICC-ES Evaluation Guideline for Determination of Regionally Extracted, Harvested or Manufactured Materials or Products (EG104), dated October 2008
- ICC-ES Evaluation Guideline for Determination of Formaldehyde Emissions of Composite Wood and Engineered Wood Products (EG108), dated October 2008
- ICC-ES Evaluation Guideline for Determination of Certified Wood and Certified Wood Content in Products (EG109), dated October 2008

Compliance eligibility with the applicable sections of the following green building rating systems, standards and codes:

- ICC 700-2008 National Green Building Standard (see Table 2 for details)
- LEED for Homes 2008 (see Table 3 for details)
- LEED for New Construction 2009 (see Table 4 for details)
- 2008 California Green Building Standards Code (CGBSC), Title 24, Part 11 (see Table 5 for details)
- Green Globes for New Construction (see Table 6 for details)

2.0 USES

iLevel and Weyerhaeuser structural wood products are used for a variety of interior and exterior framing and sheathing applications.

iLevel Javelin, TJ-Xpert and NextPhase Site Solutions are building optimization solutions consisting of a coordinated package of services, software, and fabrication equipment used for customized design and detailing of structural building products for individual projects, including complete framing plans and precut framing package options.

3.0 DESCRIPTION

iLevel and Weyerhaeuser structural wood products are manufactured from various wood species bonded with structural adhesives (where applicable) complying with applicable ICC-ES reports as indicated in Table 1.

iLevel structural design software (Javelin and TJ-Xpert) specifies optimized combinations of residential engineered wood products and dimension lumber in layouts for floor, wall, and roof systems with detailed framing plan and

material list outputs. iLevel NextPhase Site Solutions combine products, integrated design and fabrication software, fabrication equipment, support and training to enable precut or panelized framing packages to be delivered directly to a jobsite.

4.0 CONDITIONS

4.1 Code Compliance:

The iLevel and Weyerhaeuser structural products that have been evaluated for compliance with, or otherwise deemed to comply with, the requirements of the International Codes are listed in Table 1 of this report.

The evaluation of the iLevel Javelin, TJ-Xpert and NextPhase Site Solutions building optimization solutions for compliance with the requirements of the International Codes is outside the scope of this evaluation report. Compliance with all applicable code requirements must be demonstrated to the Authority Having Jurisdiction (AHJ).

4.2 Green Rating Systems, Standards and Code Eligibility:

The information presented in Tables 2 through 6 of this report provides a matrix of areas of evaluation and corresponding limitations and/or additional project-specific requirements, and offer benefit to individuals who are assessing eligibility for credits or points.

The information on Life Cycle Assessment (LCA) is limited to the boundary conditions, the Life Cycle Inventory (LCI) inputs that consist of aggregated data and the methodology contained in the documentation noted in Section 5.10 of this report. The acceptance of this LCA information rests with the end-user. See Appendix A of this report for additional discussion on LCA.

The final interpretation of the specific requirements of the respective green building rating system and/or standard rests with the developer of that specific rating system or standard or the AHJ, as applicable.

Decisions on compliance for those items noted as "Eligible for Points" in Tables 2 through 6 rests with the user of this report, and those items are subject to the conditions noted. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. Rating systems or standards often provide supplemental information as guidance. Compliance for items noted as "Verified Attribute" are also subject to any conditions noted in the tables.

5.0 BASIS OF EVALUATION

The information in this report, including the "Verified Attribute," is based upon the following supporting documentation:

5.1 ICC-ES EG102. [Evaluation applies to ICC 700 Section 606.1(2); CGSBC Section 705.2; Green Globes Section 10.2.1.1.]

5.2 ICC-ES EG104. [Evaluation applies to ICC 700 Section 608.1; LEED Homes MR2.2(c); LEED NC MR 5; CGSBC Section 705.1, Green Globes Section 10.1.4.1.]

5.3 ICC-ES EG108. [Evaluation applies to ICC 700 Section 901.4(6); LEED NC Credit EQ 4.4.]

5.4 ICC-ES EG109. [Evaluation applies to ICC 700 Section 606.2(2); Green Globes Section 10.3.2.1.]

5.5 Documentation demonstrating conformance with HUD PATH and DOE recommendations for advanced framing techniques, as summarized in Table 7 of this report. Note that the iLevel Shear Brace may be eligible when used to achieve a target reduction of 50 percent or more in square footage of wall bracing constructed on site. (Evaluation applies to ICC 700, Section 601.2; LEED Homes MR1.4.)

5.6 Software output of the iLevel Javelin and TJ-Xpert software with detailed framing or structural plans, material quantity lists and on-site cut lists for framing, structural materials, and sheathing materials, to assist with waste minimization. (Evaluation applies to ICC 700 Section 601.4; LEED Homes MR 1.2, 1.3 & 1.5)

5.7 Software output of the iLevel NextPhase Site Solutions software with detailed framing or structural plans, material quantity lists and precut framing packages to assist in waste minimization. [Evaluation applies to ICC 700 Section 601.5(1); LEED Homes MR 1.2, 1.3 & 1.5.]

5.8 Evidence of compliance with AWP Standard T1-09, Table 3. (Evaluation applies to ICC 700 Section 602.8.)

5.9 Documentation establishing and documenting all major sources of primary manufacturing energy. (Evaluation applies to ICC 700 Section 606.3.)

5.10 Consortium for Research on Renewable Industrial Materials (CORRIM) Phase 1 report (available at http://www.corrim.org/reports/2006/final_phase_1/ind_ex.htm), containing an LCA analysis performed in accordance with ISO 14044. (Evaluation applies to ICC 700 Section 609.1; CGSBC Section 709.1.)

5.11 Documentation establishing that the environmental management system conforms to the requirements of ISO 14001 or equivalent. (Evaluation applies to ICC 700 Section 610.1.)

6.0 IDENTIFICATION

iLevel and Weyerhaeuser structural wood products are identified with a stamp noting the name or logo of the manufacturer (iLevel, Weyerhaeuser), the plant number, the product trade name and the ICC-ES evaluation report number (if applicable), and the name or logo of the inspection or grading agency. The report subjects are also identified on the product and/or packaging with the VAR number (VAR-1008) and the ICC-ES SAVE Mark, as applicable.

**TABLE 1—REFERENCE STANDARD OR EVALUATION REPORT NUMBER FOR
iLEVEL AND WEYERHAEUSER STRUCTURAL WOOD PRODUCTS**

PRODUCT	REPORT NUMBER/ REFERENCE STANDARD
iLevel Trus Joist TJI Joist	ESR-1153
iLevel Trus Joist TimberStrand LSL	ESR-1387
iLevel Trus Joist Parallam PSL	ESR-1387
iLevel Trus Joist Microllam LVL	ESR-1387
iLevel Shear Brace	ESR-2652
iLevel Trus Joist StrandGuard TimberStrand LSL	ESR-1387
iLevel Framer Series Lumber	USDOC PS20
Weyerhaeuser Lumber	USDOC PS20
iLevel Green Stud	USDOC PS20
iLevel Edge	USDOC PS2
iLevel Edge Gold	USDOC PS2
iLevel Radiant Barrier Sheathing	USDOC PS2
Weyerhaeuser Sheathing	USDOC PS2
Weyerhaeuser Plywood	USDOC PS1

TABLES 2 THROUGH 6

Section #	Section Intent	Possible Points	Conditions of Use to Qualify for Points	Edge Edge Gold Radiant Barrier Sheathing Sheathing Plywood	Lumber Framer Series Lumber Green Stud	TJI Joist	TimberStrand LSL Parallam PSL Microllam LVL	Strandguard TimberStrand LSL Parallam Plus PSL	Shear Brace	Javelin Software	TJ-Xpert Software	NextPhase Site Solutions
TABLE 2—SUMMARY OF AREAS OF ELEGIBILITY WITH THE ICC-700 NATIONAL GREEN BUILDING STANDARD												
601.2	Building-code-compliant structural systems or advanced framing techniques are implemented that optimize material usage	3 each 9 max	To earn 3 points the framing methods listed in Table 7 must be used for floor, wall or roof framing. To earn 9 points they must be used for all floor, wall and roof framing	○	○	○	○	○	○			
601.4	Detailed framing or structural plans, material quantity lists and on-site cut lists for framing, structural materials, and sheathing materials are provided	4	To earn 4 points the software generated plans/lists must be on site							○	○	
601.5(1)	Precut or preassembled components, or panelized or precast assemblies are utilized for a minimum of 90 percent of the floor system	4	To earn 4 points the precut package must be used for 90% or more of the floor system								○	
602.8	Termite-resistant materials are used	6	To earn 6 points all structural elements must be termite resistant in areas of heavy termite infestation. 2 or 4 points are available for areas with lower infestation probability					●				
606.1(2)	Two types of biobased materials are used, each for more than 1 percent of the project's projected building material cost	6	To earn 6 points products must be at least 1% of the construction material cost AND another bio-based product at 1% of material cost must be used. 1 or 3 points are available for greater than 0.5%	●	●	●	●	●	●			
606.2(2)	Two certified wood-based products are used for major elements of the building, such as all walls, floors or roof	4	To earn 4 points a second certified wood product must also be used as a major element ¹	●	●	●	●	●	●			
606.3	Materials are used for major components of the building that are manufactured using a minimum of 33 percent of the primary manufacturing process energy derived from renewable sources, combustible waste sources, or renewable energy credits	2 each 6 max	To earn 6 points the products must be used for at least 3 major components of the building. 2 points may be earned when used for each major component	●	●		●	●	●			
607.1	Products containing fewer materials are used to achieve the same end-use requirements as conventional products	3 each 9 max	To earn 3 points at least 80% of framing products used in the building are iLevel products	●		●	●	●	●			
○	= Eligible for points											
●	= Verified attribute											
■	= This provision does not apply to this product/service											

Note: Footnotes are located after Table 6.

TABLES 2 THROUGH 6 (Continued)

Section #	Section Intent	Possible Points	Conditions of Use to Qualify for Points	Edge	Edge Gold Radiant Barrier Sheathing Plywood	Lumber Framed Series Lumber Green Stud	TJI Joist	TimberStrand LSL Parallam PSL Microllam LVL	Strandguard TimberStrand LSL Parallam Plus PSL	Shear Brace	Javelin Software Tj-Expert Software	NextPhase Site Solutions
TABLE 2 (Continued)												
608.1	Indigenous materials	2 each 10 max	To earn 2 points verify local products that are originated, produced, grow naturally or occur naturally within 500 miles (805 km) of the job site. This can be done by use of the regional distance calculator at www.ilevel.com ²	○	○	○	○	○	○	○		
609.1	A more environmentally preferable product or assembly is selected for an application based upon the use of a Life Cycle Assessment (LCA) tool complying with ISO 14044 or other recognized standards that compare the environmental impact of building materials, assemblies, or the whole building	3 each 15 max	To gain 15 points an ISO 14044-complaint LCA must be done on a whole building basis, such as that contained in the CORRIM report at www.corrим.org . 3 points may be earned where comparative LCA is done for individual products or systems	●	●	●	●	●	●	●		
610.1	Product manufacturer's operations and business practices include environmental management system concepts, and the production facility is ISO 14001 certified or equivalent	1 per % 10 max	1 point may be earned for each building products used that equals 1 percent or more of the estimated total building materials cost. Material cost breakdown to be verified and points adjusted to reflect actual percentage of all products from ISO 14001 facilities	●	●	●	●	●	●	●		
901.4(1)	Structural plywood used for floor, wall, and/or roof sheathing complies with DOC PS 1 and/or DOC PS 2. OSB used for floor, wall, and/or roof sheathing complies with DOC PS 2. The panels are made with moisture-resistant adhesives and the trademark indicates the adhesives are Exposure 1 or Exterior (plywood) and Exposure 1 (OSB)	Mandatory	To meet this a minimum of 85% of OSB or plywood in the building must consist of iLevel or Weyerhaeuser products	●								
901.4(6)	Non-emitting products, which can include structural wood framing	4	A minimum of 85% of product in the building are the identified iLevel products	●		●	●	●	●	●		
903.4.1(3)	The moisture content of lumber is sampled to ensure it does not exceed 19 percent prior to the surface and/or wall cavity exposure	4	To earn 4 points the moisture content of lumber must be determined to not exceed 19%, such as measuring with a moisture meter, prior to enclosure ⁷			○						
				○	= Eligible for points							
				●	= Verified attribute							
					= This provision does not apply to this product/service							

Note: Footnotes are located after Table 6.

TABLES 2 THROUGH 6 (Continued)

Section #	Section Intent	Possible Points	Conditions of Use to Qualify for Points	Edge Edge Gold Radiant Barrier Sheathing Sheathing Plywood	Lumber Framer Series Lumber Green Stud	TJI Joist	TimberStrand LSL Parallam PSL Microlam LVL	Strandguard TimberStrand LSL Parallam Plus PSL	Shear Brace	Javelin Software TJ-Expert Software	NextPhase Site Solutions
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TABLE 3—SUMMARY OF AREAS OF ELEGIBILITY WITH USGBC'S LEED FOR HOMES

MR 1.2	Detailed framing documents	1	Visually verify detailed framing plans and/or scopes of work							○	○
MR 1.3	Detailed cut list and lumber order	1	To earn 1 point verify that detailed framing cut list and lumber order are used							○	○
MR 1.4	Framing efficiencies	3 max	To earn 1 point verify that advanced framing measures in Table 7 are used for floors, walls OR roof framing	○	○	○	○	○	○		○
MR 1.5	Off-site fabrication	4	To earn 4 points use off-site panelized or modular, prefabricated construction ³								○ ³
MR 2.1	FSC certified tropical wood	0.5 each 8 max	To earn 0.5 point per component use FSC-certified tropical wood ⁴	4	4	4	4	4	4		
MR 2.2(c)	Environmentally preferable products for roof, wall and floors; interior and exterior framing and sheathing	0.5 each 8 max	To earn points use products that are extracted, processed and manufactured within 500 miles (805 km) of the site for a minimum of 90% (by weight or volume of the component). Source distance can be done by use of the regional distance calculator at www.ilevel.com ²	○	○	○	○	○	○		

TABLE 4—SUMMARY OF AREAS OF ELEGIBILITY WITH USGBC'S LEED FOR NEW CONSTRUCTION (VERSIONS 2.2 and 3)

MR 5 (MR 5.1)	Regional materials (10% of content)	1	To earn 1 point use products that are extracted, processed and manufactured within 500 miles (805 km) of the site for a minimum of 10% (by cost) of total materials value. To earn 2 points use a minimum of 20%. Source distance can be done by use of the regional distance calculator at www.ilevel.com	○	○	○	○	○	○		
MR 5 (MR 5.2)	Regional materials (20% of content)	2		○	○	○	○	○	○		
MR 7	Certified wood	1	To earn 1 point use a minimum 50% (based on cost) of wood-based materials/products certified to FSC requirements ⁴	4	4	4	4	4	4		
EQ 4.4	Low emitting materials	1	To earn 1 point use wood composite wood products containing no-added urea-formaldehyde resins	●		●	●	●	●		

○ = Eligible for points

● = Verified attribute

■ = This provision does not apply to this product/service

Note: Footnotes are located after Table 6.

TABLES 2 THROUGH 6 (Continued)

Section #	Section Intent	Possible Points	Conditions of Use to Qualify for Points	Edge Edge Gold Radiant Barrier Sheathing Sheathing Plywood	Lumber Framer Series Lumber Green Stud	TJI Joist	TimberStrand LSL Parallam PSL Microlam LVL	Strandguard TimberStrand LSL Parallam Plus PSL	Shear Brace	Javelin Software	TJ-Expert Software	NextPhase Site Solutions
TABLE 5—SUMMARY OF AREAS OF ELEGIBILITY WITH 2008 CALIFORNIA GREEN BUILDING STANDARDS CODE												
705.1	Regional materials	N/A	Verify local products that are extracted, processed and manufactured within California or 500 miles (805 km) of the job site. Use regional distance calculator at www.ilevel.com ²	○	○	○	○	○	○	○	○	○
705.2	Bio-based materials	N/A	All iLevel wood products are qualified as biobased	●	●	●	●	●	●	●	●	●
705.2.1	Certified Wood	N/A	Under review by California Building Standards Commision ⁵	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
709.1	Life cycle assessment	N/A	Select materials or assemblies based on an LCA done in accordance with ISO 14044, such as that contained in the CORRIM report at www.corrim.org	○	○	○	○	○	○	○	○	○
804.4.4	Composite wood product emissions	N/A	EWP and lumber products do not apply to the composite wood product definition ⁶	○	○	○	○	○	○	○	○	○
805.3	Moisture content of building materials	N/A	Moisture content of lumber may be measured with an appropriate handheld moisture meter ⁷	○	○	○	○	○	○	○	○	○
TABLE 6—SUMMARY OF AREAS OF ELEGIBILITY WITH GBI'S GREEN GLOBES STANDARD												
10.1.1.1	Life cycle impact - building assemblies	33 max	Use Green Globes LCA Credit Calculator	○	○	○	○	○	○	○	○	○
10.1.2.2	Biobased Products - building assemblies	7 max	All iLevel wood products are qualified as biobased	●	●	●	●	●	●	●	●	●
10.1.4.1	Regional Materials - building assemblies	5 max	To earn credits use products that are extracted, processed and manufactured within 500 miles (805 km) of the site for a minimum of 90% (by weight or volume of the component. Source distance can be done by use of the regional distance calculator at www.ilevel.com ²	○	○	○	○	○	○	○	○	○
10.3.2.1	Certified wood	6	Between 10% and 60% or more of wood-based products used in the building are third party certified	●	●	●	●	●	●	●	●	●
○	= Eligible for points											
●	= Verified attribute											
	= This provision does not apply to this product/service											

¹Certification is required of the manufacturer only. Vendor Chain of Custody is not required to qualify for this point.

²Distance calculator provides distance from source to mill and mill to site in a straight line.

³Applicable only when a third-party prefabricates the framing package prior to arrival on the site. NextPhase Solutions allows for either prefabrication off-site or assembly on-site using materials labeled and cut to precision-end-trim dimensions off-site.

⁴Forest certification credit currently resources FSC exclusively but is under review by USGBC. Credit of other certification schemes is at the discretion of the verifier.

⁵CGBSC recognizes importance of use of certified forest products however the specific requirements are currently under development.

⁶This area is not be confused with the provisions of EQ 4.4 in LEED (Table 4) because the California Air Resources Board (CARB) does not regulate engineered wood product emissions.

⁷Note that PS-20 lumber products with a moisture content >19% are shipped wet with fungicide protection. Engineered wood products and sheathing are shipped dry with MC < 10%.

N/A = Not applicable

TABLE 7—ADVANCED FRAMING TECHNIQUES

	RATING SYSTEM ¹	
	ICC-700	LEED-HOMES
PRESCRIPTIVE-BASED COMPLIANCE CRITERIA		
19.2- or 24-inch OC floor framing	✓	✓
19.2- or 24-inch OC bearing walls	✓	✓
24-inch OC roof framing	✓	✓
24-inch OC interior partitions	✓	✓
Single top plate walls	✓	See footnote 3
Right sized or insulated headers (where required)	✓	✓
Eliminate headers in non-bearing walls	✓	✓
Doubling rim joist in lieu of header (2x6 or deeper wall)	✓	See footnote 3
Ladder blocking at interior wall-to-exterior wall intersections	✓	✓
Two stud corner framing	✓	✓
Doubling rim joist in lieu of header (2x6 or deeper wall)	✓	See footnote 3
Other measures that reduce material usage	See footnote 2	See footnote 3
PERFORMANCE-BASED COMPLIANCE CRITERIA		
Optimized design per Wood Frame Construction Manual	✓	See footnote 3
Optimized design per National Design Specification for Wood Construction	✓	See footnote 3
Precut framing packages	N/A	✓

For **SI**: 1 inch = 25.4 mm.

¹ ✓ represents that the criteria is deemed to comply when conditions are met.

²In ICC-700 Section 601.2, 3 points may be gained for each advanced framing technique that exceeds 80% usage in the building up to 9 points maximum. See references in 601.2 commentary for additional details on prescriptive-based compliance criteria.

³In LEED for Homes Section MR 1.4, Table 23, alternative measures to Table 23 are eligible for points if they save comparable amounts of framing material.

Appendix A

Discussion Related to Life-Cycle Assessment

A1.0 GENERAL

The following information is intended to provide some general background on LCA provisions in existing rating systems and standards. Users are advised that the science of LCA is still evolving and there are no standardized procedures for such an analysis. It must be noted that Section 609.1 of ICC 700, Section 709.1 of the California Green Building Standards Code (CGBSC) and Section 10.1.1 of Green Globes encourage the use of comparative LCA as means of selecting preferable materials, systems or building assemblies. However, LCA results should not be interpreted beyond the scope of the boundary limits used in performing the LCA.

This VAR indicates that iLevel and Weyerhaeuser products may be eligible for points related to LCA by use of the information contained in the documentation noted in Section 5.10 of this report. This appendix discusses additional information required by the user of this report related to achieving points or demonstrating compliance based on LCA output.

A2.0 DISCUSSION RELATED TO ICC 700

As indicated in the ICC 700 Commentary, points can be obtained based on the results of an analysis based on an LCA. For the purpose of compliance with the intent of ICC 700, the following steps (as a minimum) are recommended:

- Fully define the benchmark material, product, assembly, or structure
- Fully define the product or assembly proposed as more environmentally friendly
- Fully define the endpoints or boundaries of the analysis (so-called cradle-to-gate, cradle-to-grave, cradle-to-cradle, etc). For analyses that go beyond cradle-to-gate, a separate report is recommended for each application or use category. Such reports are also recommended to include a discussion of the sensitivity of the analysis to major assumptions for major parameters.
- Employ an LCA method complying with ISO 14044.
- Report all applicable attributes of the benchmark analysis and the proposed product/assembly analysis that are relevant to the LCA.
- The involvement of an individual with experience in the field of LCA and who is knowledgeable in the latest research and standards related to LCA, from the earliest planning stages through completion of the final assessment, is recommended.
- An independent peer review of the entire LCA methodology and its conclusions by an individual knowledgeable in LCA is recommended.

Examples of an LCA that meets these requirements can be found in the series of CORRIM reports (www.corrim.org) that address a broad range of wood-based building materials.

A3.0 DISCUSSION RELATED TO CGBSC

Similar to the requirements of ICC 700, Section 709.1, of the CGBSC allows the use of selected materials or assemblies based on LCA done in accordance with ISO 14044.

A4.0 DISCUSSION RELATED TO GREEN GLOBES

Although life-cycle assessment in its broad sense is too complex for standardization at this time, the use of a specific tool (e.g., Green Globes LCA Credit Calculator) in strict accordance with the rating system intent of comparative analysis of specific components of the building is reasonable. However, users are advised to consult with persons familiar with LCA tools when conducting this analysis. Additional guidance regarding the Green Globes LCA Credit Calculator is provided in Appendix N of the Green Globes document.