



LEED 2009 for Retail: Commercial Interiors

EA CREDIT 1.5: OPTIMIZE ENERGY PERFORMANCE BUILDING ENVELOPE

All fields and uploads are required unless otherwise noted.

ALL OPTIONS

This static sample form has been modified for offline access. All sections of the form are visible. Sample forms are for reference only.

Select one of the following:

- ☐ **Option 1. Performance Path:** The project team will document a reduction in the overall heat loss and heat gain of the proposed building envelope compared with the baseline building performance rating per ASHRAE/IESNA Standard 90.1-2007.
- ☐ **Option 2. Prescriptive Path:** The building in which the project space is located is a retail occupancy, less than 20,000 square feet, and the project team will document compliance with the prescriptive measures for building envelopes described in the ASHRAE Advanced Energy Design Guide for Small Retail Buildings 2006.

OPTION 1. PERFORMANCE PATH

Upload EAc1.5-1. Provide a summary report in which the envelope performance factor of the proposed building demonstrates a reduction of least 15% in overall heat loss and heat gain, per the envelope trade-off option described in ASHRAE 90.1-2007, Section 5.6.1.

Files:

- ☐ The project team is using the report above to document exemplary performance of EA Credit 1.5 by demonstrating a reduction of at least 30% in the overall heat loss and heat gain from the building envelope.

OPTION 2. PRESCRIPTIVE PATH

Project Location

City:

State/US Territory/Canadian Province:

Country:

Zip/Postal Code:

County:

AEDG Climate Zone:

Complete Table EAc1.5-1 below. Enter the AEDG requirements as appropriate for the project's climate zone and describe the proposed building's corresponding design. For any envelope components not incorporated in the building envelope (e.g. skylights), enter N/A for both the AEDG Recommendation and the Proposed Design.

Table EAc1.5-1. ASHRAE Advanced Energy Design Guide for Small Retail Buildings

	Envelope	
	AEDG Recommendation ¹	Proposed Design
Roof		
Walls		
Floors		
Slabs		
Doors - opaque		
Vertical glazing (inc. doors)		
Skylights		

¹ If the Advanced Energy Design Guide contains "No recommendation" for a component, the project must meet the requirements of either Standard 90.1 or the local code requirements. In these instances, insert "ASHRAE 90.1 Requirement:" or "[local code] Requirement" under the "AEDG Recommendation" column, followed by that code's requirements. The "Proposed Design" column inputs remain the same.

Summarize the implementation strategies used to meet the ASHRAE Advanced Energy Design Guide requirements. Consider Chapter 5 of the standard, "How to Implement Recommendations," and reference any recommendations used.

ADDITIONAL DETAILS

☐ Special circumstances preclude documentation of credit compliance with the submittal requirements outlined in this form.

SPECIAL CIRCUMSTANCES

Describe the circumstances limiting the project team's ability to provide the submittals required in this form. Be sure to reference what additional documentation has been provided, if any. Non-standard documentation will be considered upon its merits.

Upload EAc1.5-SC. Provide any additional documentation that supports the claim to special circumstances. (Optional) *Files:*

☐ The project team is using an alternative compliance approach in lieu of standard submittal paths.

ALTERNATIVE COMPLIANCE PATH

Describe the alternative compliance path used by the project team. Include justification that this path meets the credit intent and requirements. Be sure to reference what additional documentation has been provided, if any. Non-standard documentation will be considered upon its merits.

Upload EAc1.5-ACP. Provide any additional documents that support the alternative compliance path approach. (Optional) *Files:*

☐ The project team is using the above alternative compliance path to document exemplary performance of EA Credit 1.5.

SUMMARY

EA Credit 1.5: Optimize Energy Performance - Building Envelope Points Documented:

EA Credit 1.5: Optimize Energy Performance - Building Envelope Exemplary Performance Documented:

☐ The project team reserves one point in the Innovation in Design credit category for exemplary performance in EA Credit 1.5.