



Graham Architectural Products

Leed Rating System Compliance Matrix

CATEGORY	CREDIT	DESCRIPTION	AWARD POINTS	LEED REQUIREMENTS	Graham Architectural Products
ENERGY & ATMOSPHERE	1	Optimize Energy Performance	1-10	<p>Intent: Achieve increasing levels of energy performance above the prerequisite standard to reduce environmental impacts associated with excessive energy use.</p> <p>Requirements: Demonstrate a percentage improvement in the proposed building performance rating compared to the baseline building performance rating per ASHRAE/IESNA Standard 90.1-2004 (without amendments) by a whole building project simulation using the Building Performance Rating Method in Appendix G of the Standard.</p>	<p>Optimize Energy Performance:</p> <p>Graham provides high performance insulating glass units that reduces the energy demand on the HVAC.</p> <p>Graham manufactures thermally broken aluminum windows & doors and window wall systems for increased thermal performance.</p> <p>Graham offers EnerGbar™ thermal strut for improved energy performance and safety.</p>
		Three options: Whole Building Energy Simulation Prescriptive Compliance Prescriptive Compliance	4	Comply with the prescriptive measures of the ASHRAE Advanced Energy Design Guide for Small Office Buildings 2004.	
			1	Comply with the Basic Criteria and Prescriptive Measures of the Advanced Buildings Benchmark™ Version 1.1 with the exception of the following sections: 1.7 Monitoring and Trend-logging, 1.11 Indoor Air Quality, and 1.14 Networked Computer Monitor Control.	
MATERIALS & RESOURCES	4.1 4.2	Recycled Content - 10% Recycled Content - 20%	1 1	<p>Intent: Increase demand for building products incorporating recycled content materials, therefore reducing impacts resulting from extraction and processing of new virgin materials.</p> <p>Requirements 4.1 & 4.2: Use materials with recycled content such that the sum of the post-consumer recycled content plus one-half of the post-industrial content constitutes at least 10% or 20% of the total value of the materials in the project.</p>	<p>Recycled Content:</p> <p>Graham uses glass manufactured with a minimum of 20% post industrial recycled content.</p> <p>Graham Architectural Products window & door extrusions are produced with up to 60% post industrial, recycled content.</p>
	5.1 5.2	Local/Regional Materials Local/Regional Materials	1 1	<p>Intent: Increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the regional economy and reducing the environmental impacts resulting from transportation.</p> <p>Requirement 5.1: Use a minimum of 20%/ 50% of building materials and products that are manufactured regionally within a radius of 500 miles.</p> <p>Requirements 5.2: Of the regionally manufactured materials documented for MR credit 5.1, use a minimum of 50% of building materials and products that are extracted, harvested or recovered (as well as manufactured) within 500 miles of the projects site.</p>	<p>Local/Regional Materials:</p> <p>Graham's manufacturing facility is located in York, PA within 500 miles of most North eastern U.S. markets.</p>
	2	Increased ventilation	1	<p>Intent: Provide additional outdoor air ventilation to improve indoor air quality for improved occupant comfort, well-being and productivity.</p>	<p>Increased ventilation:</p> <p>Graham offers many types and styles of operable products to allow natural ventilation.</p>
	7.1	Thermal Comfort	1	<p>Intent: Provide a comfortable thermal environment that supports the productivity and well-being of building occupants.</p>	<p>Thermal Comfort:</p> <p>Graham's window & door products provide several options that assist with thermal comfort ratings.</p>
INDOOR ENVIRONMENTAL QUALITY	8.1 8.2	Daylight 75% of Spaces Daylight 90% of Spaces	1 1	<p>Intent: Provide for the building occupants a connection between indoors spaces and the outdoors through the introduction of daylight views into the regularly occupied areas of the building.</p> <p>Requirements 8.1: Achieve a minimum daylight factor of 2% (excluding all direct sunlight penetration) in 75% of all spaces occupied for critical visual tasks.</p> <p>Requirements 8.2: Achieve direct line of sight to vision glazing for building occupants in 90% of all regularly occupied spaces.</p>	<p>Daylight & Views:</p> <p>Graham has many glass options available with high performance and high visible light transmittance.</p> <p>Graham window and door units allow daylight access to secure and remote areas of the building that typically in the past did not have glass and glazing.</p>