

## Fiber Glass, Rock & Slag Wool Insulation's Potential Contribution To Achieving NAHB National Green Building Standard™ Rating System Certification<sup>1</sup>

CATEGORY	FIBER GLASS, ROCK WOOL & SLAG WOOL INSULATION CONTRIBUTION	Fiber Glass Batts	Fiber Glass Blown In	Rock & Slag Wool	Fiber Glass Air Duct Insulation
<b>Resource Efficiency</b>	Fiber glass insulation contains upwards of 40% recycled glass. Slag wool contains approximately 70-75% recycled content.  There are ISO 14001 certified or equivalent fiber glass, rock wool and slag wool manufacturing facilities located in North America.	•	•	•	•
<b>Life Cycle Assessment</b>	Fiber glass, rock and slag wool insulations may contribute to Life Cycle Assessment credits. The life cycle assessment of fiber glass, rock and slag wool can be achieved with LCA tools such as: <ul style="list-style-type: none"> <li>• Building for Environmental and Economic Sustainability (BEES) www.bfrl.nist.gov/oe/software/bees/registration.html</li> <li>• AETHENA® EcoCalculator found at www.athenasmi.ca/tools/ecoCalculator</li> </ul>	•	•	•	•
<b>Energy Efficiency</b>	Fiber glass, rock and slag wool insulations help reduce building energy demand and are one of the most cost efficient materials available on the market. These insulation products come in a variety of forms (batts, rolls, blankets, blown-in) and R-values making them ideal for compliance using either the prescriptive path, performance path or ENERGYSTAR requirements.	•	•	•	•
<b>Insulation and Air Sealing</b>	Fiber glass, rock and slag wool insulations, when installed in thermal envelope systems with an air barrier sealing all joints, seams, and penetrations, will reduce air and moisture infiltration and deliver optimal thermal protection to the home.	•	•	•	
<b>Duct Work</b>	Fiber glass insulated ductwork allows a home's HVAC system to deliver conditioned air at design temperatures. Consistent air temperatures mean increased comfort for homeowners without over-taxing the energy source, while maintaining lower energy costs. In addition, insulated ductwork reduces condensation and absorbs noise from the HVAC system's operation.				•
<b>Innovative Practices</b>	Fiber glass, rock and slag wool insulations can be used in innovative designs that have both environmental and health benefits. Congressional findings conclude that noise jeopardizes the health and welfare of the nation's population and impacts the environment. <sup>2</sup> These insulation products can improve indoor acoustic comfort by absorbing noises from exterior sources, interior sources, mechanical heating and cooling systems and from adjoining units. <sup>3</sup>	•	•	•	•

**Disclaimer:** NAIMA can not and does not guarantee compliance with NAHB Green Building Standard through the use of its products. For advice on qualifying with NAHB Green Building Standard, work with an NAHB consultant.

<sup>1</sup> <http://www.nahbrc.org/technical/standards/greenbuilding.aspx>

<sup>2</sup> Noise Control Act, 42 U.S.C. § 4901

<sup>3</sup> Final Report for the Aircraft Noise Insulation, *Noise Insulation Project for San Francisco International Airport, San Francisco International Airport*, Phase one Pilot Project, FAA, FAA funded and prepared for the City of South San Francisco, Earth Metrics Inc., Burlingame, Calif., July 1986; C.M. Hogan and Ballard George, *Pilot Noise Residential Insulation Program*, San Jose International Airport, (1983)