



NCFI Polyurethanes, Div. of BMC, Inc.
 P.O. Box 1528 • Mount Airy, NC 27030
 800-346-8229 www.NCFI.com

LEED® v4 2014 for New Construction and Major Renovations

Credits possible with NCFI InsulBloc® Spray Foam System

Credit Reference and Description	InsulBloc® Spray Polyurethane Foam Contribution
Energy & Atmosphere (EA)	
<p>EA Prerequisite: Minimum Energy Performance: To establish the minimum level of energy efficiency for the proposed building and systems to reduce environmental and economic impacts associated with excessive energy use.</p> <p>EA Optimize Energy Performance</p>	<ul style="list-style-type: none"> • InsulBloc makes it easy to accomplish the prerequisite with exterior or interior applications as it provides very high R-values per unit thickness and air seals any geometric shape eliminating heat (energy) bypassing the thermal boundary resulting in a highly energy efficient insulation membrane. • InsulBloc is seamless and fully adhered. It tends to be more “efficient” under a variety of environmental factors than other insulations. • More R-value can be designed into projects while requiring less space. For renovations, R-value can be added without changing wall thickness. • Contributes significantly to controlling air infiltration. • Air impermeable insulation; therefore effective R value not reduced by wind washing or air infiltration or exfiltration • InsulBloc is seamless and fully adhered. It tends to be more “efficient” under a variety of environmental factors than other insulations. • InsulBloc bridges construction gaps and joints (e.g., wall-roof junctions and wall-column junctions).

Credit Reference and Description	NCFI Spray Polyurethane Foam Contribution
Materials & Resources (MR)	
<p>MR Credit: Building Life Cycle Impact Reduction</p> <p>MR Credit: Building Product Disclosure and Optimization</p> <p>MR Credit: Construction and Demolition Waste Management</p>	<ul style="list-style-type: none"> • Option 4 Whole-Building Life-Cycle Assessment; NCFI is recognized participant in Industry wide LCA • Option 1 or 2 Environmental Product Declaration NCFI is recognized participant in Industry wide EPD • Option 1 or 2 NCFI SPF is a liquid delivered to the job site in 55-gallon drums, which are returned for recycling after the liquid is sprayed, therefore 100% of the packaging is recycled and eliminated from the waste stream. For every set of SPF sprayed on a job 76 pounds of packaging is returned to the recycling system.
Indoor Environmental Quality (EQ)	
<p>EQ Credit: Enhanced Indoor Air Quality Strategies</p> <p>EQ Credit: Low Emitting Materials</p> <p>EQ Credit: Thermal Comfort-Design</p>	<p>Option 2 Additional Enhanced IAQ Quality Strategies—D</p> <ul style="list-style-type: none"> • Option 1 or 2: Product Category Calculations: Thermal Insulation InsulBloc is certified as Low VOC insulation, per ASTM D5116 and complies with the VOC limits of the South Coast Air Quality Management District (SCAQMD) rule #1168 • InsulBloc easily seals the building envelope to permit mechanical controls to be effective with uniform temperatures and air movements
Innovation & Design Process	
<p>IN: Innovation in Design</p>	<ul style="list-style-type: none"> • InsulBloc can be installed as continuous insulation on all walls with added insulation R-value above prescriptive requirements providing exception energy efficiency far beyond code mandated levels. • InsulBloc can perform on any geometric shape for air - moisture – and heat control, thereby allowing designers to be creative with their designs to build the shape while still providing the energy and environmental efficiency for today’s world.