



NCFI Polyurethanes, Div. of BMC, Inc.
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LEED[®] for Homes 2008

Possible Credits with NCFI Sealite[™] and InsulStar[®] Spray-in-Place Polyurethane Foam Systems

Credit Reference No.	Description	NCFI Spray Polyurethane Foam Contribution
ID 2: Durability Management Process	Promote durability and high performance of the building enclosure thru design, materials and construction practices	<ul style="list-style-type: none"> InsulStar provides secondary water barrier to interior roof decks and more than doubles wind uplift resistance of conventional nailing patterns for wood decking providing far superior safety and durability with the non-vented attic designs. InsulStar is FEMA rated Class 5 Flood Resistant Insulation that will not be damaged by contact with water.
ID 3: Innovative or Regional Design	Minimize the environmental impact of the home by incorporating additional green design and construction measures that have tangible and demonstrable benefits beyond those in the LEED for Homes Rating System	<ul style="list-style-type: none"> Create a design with non-vented cathedralized ceiling harvesting typically wasted attic space into conditioned usable space for bonus rooms, added closet/storage space and conditioned space for heating/cooling ducts to create more useful room in the same floor plan and highly energy efficient routing of mechanicals within the thermal boundary.
EA 1 Optimize Energy Performance	Improve the overall energy performance of a home by meeting or exceeding the performance of an Energy Star labeled home.	<ul style="list-style-type: none"> Sealite and InsulStar provide Air impermeable insulation; therefore effective R value not reduced by wind washing or air infiltration or exfiltration.
EA 2	Design and Install insulation to minimize heat transfer and thermal bridging	<ul style="list-style-type: none"> InsulStar provides higher R value per inch permitting greater insulation values in smaller framing cavities so designs with 2 x 4 framing can still achieve enhanced insulation values. Sealite and InsulStar are seamless and fully adhered. They are more “efficient” under a variety of environmental factors than other insulations.
EA 3 Air Infiltration	Minimize energy consumption caused by uncontrolled air leakage into and out of conditioned spaces.	<ul style="list-style-type: none"> Sealite and InsulStar will bridge construction gaps and joints (e.g., wall-roof junctions and wall-column junctions) forming the air tight seal to stop thermal leakage.
EA 5 Heating and Cooling Distribution System	Minimize energy consumption due to thermal bridges and/or leaks in the heating and cooling distribution system.	<ul style="list-style-type: none"> Sealite and InsulStar can be installed to create a complete air sealed thermal envelope with all HVAC equipment and ductwork inside the thermal boundary.
EA 7 Water Heating	Reduce energy consumption associated with the domestic hot water system...	<ul style="list-style-type: none"> Sealite and InsulStar can be sprayed over water distribution pipes providing the insulation requirements of EA 7.2

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<p>MR 1 Material Efficient Framing</p> <p>MR 2 Environmentally Preferable Products</p> <p>MR 3 Waste Management</p>	<p>1.4 framing efficiencies</p> <p>Alternate measures not listed in Table 23 may be eligible to earn points if they save comparable amounts of framing material.</p> <p>Building Reuse: Maintain % of Existing Walls, Floors and Roof</p> <p>Low emissions use products that meet the emission specifications in Table 24 SCAQMD Rule #1168</p> <p>Reduce waste generation to a level below the industry norm.</p>	<ul style="list-style-type: none"> • InsulStar’s high R value per inch permits reduction of 2x6 framing to 2x4 framing and still install the proper R value. In a typical 2500 sf home, this equates to reducing the lumber required of 3 trees not cut for framing members. • Sealite and InsulStar can be used to design a cathedralized attic, harvesting the space and making maximum use of the framing requirements, thereby creating a house with more useable space with less lumber. • Sealite and InsulStar can be applied to most existing substrates, providing insulation, dampproofing and reduced water vapor transmission. Allows the reuse of existing building elements. • NCFI Enduratech roofing systems can be applied as a recover over many common existing roofs. Avoiding tear-offs lessens waste load to landfills. • NCFI Enduratech high R-value allows for upgrading insulation while installing the new roof. • Sealite and InsulStar meet the low emissions standards per the South Coast Air Quality Management District Rule #1168 • Sealite and InsulStar are liquids packaged in drums. The liquid is sprayed on the job and the drums are then returned for recycling, therefore 100% of the packaging is recycled and eliminated from the waste stream. For every set of Sealite or InsulStar sprayed on the house, 76 pounds of packaging is returned to the recycling systems.
<p>EQ 1 Indoor Air Package</p> <p>EQ 10.2 Garage Air Seal</p>	<p>Improve the overall quality of a home’s indoor environment by installing an approved bundle of air quality measures</p> <p>Minimize Pollutants from Garage</p>	<ul style="list-style-type: none"> • Designers can utilize Sealite and InsulStar as part of the overall air barrier system. • Sealite and InsulStar can be sprayed into wall cavities to air seal gaps and around penetrations, thereby blocking airborne pollutants from the garage.

