



DEMILEC

2925 Galleria Drive, Arlington, TX 76011

## LEED

Leadership in Energy & Environmental Design

### POTENTIAL APPLICABLE CREDITS AND POINTS

Potential points using *SEALECTION* 500<sup>®</sup> Spray Polyurethane Foam.

Ref: LEED USA-NC, (V 2.2 Oct. 2005)

#### ENERGY & ATMOSPHERE

##### Optimize Energy Performance

EA-1

(1-10 points)

- It is easy to obtain a high efficiency insulation system with *SEALECTION* 500<sup>®</sup>. The performance of this product derives from its air sealing characteristics reducing the potential for air infiltration, widely accepted as the main source for inefficiency in a building. Also, by applying *SEALECTION* 500<sup>®</sup>, it is possible to properly size the HVAC equipment according to the applicable ACCA manual without adding extra tonnage to compensate for excessive air leakage.

#### MATERIALS & RESOURCES

##### Reuse Building

Note: *If a building already has Spray Foam Insulation (SPF), it is possible to keep it in place. SPF is 100% self-adhesive and stays in place for the life of the building. The foam maintains its air-barrier, vapor, and R-value properties. It is always possible to confirm property values with laboratory testing. New SPF could be applied to product in place. With SPF in place the exterior cladding will stay in good condition, with no air exfiltration, and no condensation in the wall structure*

MR – 1.1

- (1 point)  
Maintain 75% of existing walls, and roof

MR – 1.2

- (1 in addition)  
Maintain 95% of existing walls, and roof.

MR – 2.1 Construction Waste Management

MR – 2.2      ▪ (1 point)  
Divert 50% From Landfill.

- (1 point in addition)  
Divert 75% From Landfill.  
*SEALECTION 500*<sup>®</sup> is delivered in 3 different size containers:  
974 lb steel or plastic barrels, which is recyclable.  
Barrels will produce ~ 1,417 ft<sup>3</sup> of foam.  
Totes (4870 lb plastic container) = (~7,083 ft<sup>3</sup> of foam) the totes are reusable.  
Bulk (~78000 lb tanker truck): The liquid is transferred to bulk containers in truck = (~113,450 ft<sup>3</sup> of foam)
- With Spray Polyurethane Foam there is no trimming or adjustment, no glue, no mechanical fastening, no tapes at joints. The spray foam follows any shape of the building and always gives high performance results without any complex details. This results in minimum insulation waste.
- The window protection could be used by the spray foam contractor and the masonry contractor.

MR – 5.1

Regional Material

- (1 point)  
10% Extracted and Manufactured Regionally
- MR – 5.2      ▪ (1 point in addition)  
20% Extracted and Manufactured Regionally

Use a minimum of 10% or 20% of building materials or products within 500 miles of the project site or 1,500 miles when shipped by rail or water.

*SEALECTION 500*<sup>®</sup> is manufactured onsite by Authorized Contractors

**INDOOR ENVIRONMENTAL QUALITY**

EQ-4.1      Low-Emitting Materials: Adhesives & Sealants

(1 point)  
Reduce the quantity of indoor air contaminants that are odorous, potentially irritating and/or harmful to the comfort and well-being of installers and occupants

EQ – 7      *SEALECTION 500*<sup>®</sup> content: 0% FORMALDEHYDE, 0% CFC, 0% HCFC,  
0% HFC, 0% HYDROCARBONS, 0% PENTA BDE

Thermal Comfort

- (1 point)  
Provide a thermally comfortable environment that supports the productivity and

well being of building occupants. *SEALECTION 500*<sup>®</sup> insulates and air seals the building envelope in one step.

## ID – 1 **INNOVATION & DESIGN PROCESS**

### Innovation in Design

- (1 to 4 points)  
Design provides exceptional performance above the requirements set by LEED Green Building Rating System and/or Innovative performance.
  
- *SEALECTION 500*<sup>®</sup> is a two component, open-celled, spray-applied, semi-rigid polyurethane foam system. This product is a fully water blown system having a low in-place density which can contribute significantly to the energy efficiency of the building. The application of *SEALECTION 500*<sup>®</sup> spray foam insulation offers a substantial reduction of air infiltration and improved integrity of the air tightness allowing for more accurate sizing of the HVAC which is generally smaller in tonnage.