

## **Flex COOL Roof Products**

### **Energy Star Roof Program**

**Flex Membrane International Corp.** is pleased to announce that our company is a Partner in the United States Environmental Protection Agency Energy Star Roof Products Program. Flex's white, thermoplastic roofing membranes reflect rays of the sun, making the building cooler and more energy efficient. Flex's light colored roof products also help the environment by not contributing to the urban heat island effect found in many metropolitan areas.

Energy Star is a program designed by the U.S. Environmental Protection Agency (EPA) and the U.S. Department of Energy (DOE). The EPA and DOE promote the use of products that help save energy by awarding the Energy Star Label, the symbol for energy efficiency. Roof products which meet or exceed reflectivity criteria, without compromising product quality and performance, qualify for the Energy Star label.

Roofing consultants and architects will want to specify Flex's Energy Star Labeled Roof Products because they offer increased value to the customer. The cost savings gained from roofing with Flex's white energy efficient membranes help offset the cost of the project.

### **CRRC Approved Roof Products** **HELP BUILDINGS USE LESS ENERGY**

Flex Membrane International Corp. is a Licensed Seller/Manufacturer of Cool Roof Rating Council approved products. The Cool Roof Rating Council (CRRC) is a non-profit association comprised primarily of roofing product manufacturers and sellers and their trade associations. The Council was established in 1998 to implement and promote fair, accurate, and credible radiative performance rating systems for roof surfaces. The centerpiece of the CRRC is its third party testing and rating program that provides credible reflectance and emissivity data. CRRC standardizes and assures the quality of the rating process. The CRRC also requires aged product testing to determine the performance of a cool roof over time as it is influenced by environmental exposure.

Code bodies are increasingly choosing to require better roof radiative performance. The State of California has selected the CRRC as the sole supervisory entity for the purpose of maintaining a rating system for radiative properties of roofing materials. Currently the state's energy efficiency code, Title 24, requires a cool roof, which is defined by the state as having initial solar reflectance of 0.70 and thermal emittance of 0.75 for low sloped roofs. Flex Membrane International's approved single-ply thermoplastic roof membranes exceed these requirements by more than ten percent.

## LEED Information

Flex Roof System Products contribute in various ways to earn LEED® rating points, the US Green Building Council's first standard for Green Buildings. LEED, Leadership in Energy and Environmental Design, Building's Rating System represents the construction industry's definition for what constitutes a "green" building. LEED requires building owners to accumulate credits for any number of design strategies. Credits or points are earned for successful accomplishment of the measures, and a minimum 38% of the available points are required to achieve the minimum LEED Certified rating. The following products manufactured or supplied by Flex earn or contribute to the accumulation of potential LEED credit points.

### Flex White Roof Membranes:

**Heat Island Effect:** Roof, 1 point earned for installing a white reflective roof membrane or Garden Roof System.

**Optimize Energy Performance:** contributes, assists in reaching the specified reduction of design energy costs.

**Regional Material:** contributes, when the project is located within 500 miles of the manufacturing facility.

**Recycled Content:** contributes, Flex Elvaloy white roof membranes contain 5% by volume of recycled material.

**Building Reuse:** contributes, Flex Elvaloy white roof membranes can be and often are used in roof recover applications.

**Construction Waste Management:** contributes, Building Reuse criteria.

### Flex DensDeck Roof Cover Board:

**Recycled Content:** contributes, percentage varies upon thickness of board.

**Regional Material:** contributes, when the project is located within 500 miles of the manufacturing facility.

**Innovation in Design:** contributes, product resists growth of mold pursuant to the test method ASTM D-3275.

### Flex ISO II Polyisocyanurate Roof Insulation Board:

**Minimum Energy Performance:** contributes, Flex ISO II facilitates compliance with ASHRAE/IESNA 90.1-1999 and local energy codes.

**Optimize Energy Performance:** contributes, Flex ISO II provides high thermal resistance per inch of material and assists in reaching the specified reduction of design energy costs.

**Building Reuse:** contributes, Flex ISO II can be and often is used in roof recover applications or partial tear offs.

**Construction Waste Management:** contributes, Building Reuse criteria.

**Recycled Content:** contributes, facers 100 % recycled, inner board varies by weight from 16% to 43% depending on board thickness.

**Regional Material:** contributes, when the project is located within 500 miles of the manufacturing facility.

**Innovation in Design:** contributes, Flex ISO II is manufactured with an HCFC free formulation and has zero ozone depletion potential and zero global warming potential.

Flex Roof System Products are an integral component in achieving success towards the three R's of sustainable building: **Reduce, Recycle, and Reuse.**