



## **TECHNICAL BULLETIN**

### **MALARKEY'S SUSTAINABILITY PRACTICES SUPPORT APPLICANTS TO A WASHINGTON STATE COMMUNITY DEVELOPMENT PROGRAM**

[September 2019]

The *Evergreen Sustainable Development Standard* (ESDS) is a program created by the State of Washington to set building performance standards for affordable housing projects or programs seeking funds from the state's Housing Trust Fund. From the INTRODUCTION of version 3.0.1: "The ESDS aligns Washington State's affordable housing investment strategies with environmentally responsible building practices. Green building improves the economics of managing affordable housing and promotes environmental quality while enhancing quality of life for residents."

Similar to the LEED program, ESDS lists construction criteria that safeguard health and safety, increase energy efficiency, promote sustainable living, and preserve the environment. Applicants must comply with applicable mandatory requirements for their project type (new construction, rehabilitation, portions of a larger project, etc.) to achieve points. The various project types can have different point totals and offer ways to acquire optional points.

Malarkey's sustainability practices can support program applicants best in Section 6 of the ESDS, *Materials Beneficial to the Environment*, which states, "Purchasing green materials and recycling and reusing materials whenever possible can improve conditions for resident health, enhance project durability, and reduce waste and disposal costs."

Subsections directly applicable:

#### **6.4 Environmentally Preferable Materials**

Malarkey's Portland, Oregon manufacturing facility is within 500 miles of any construction site in Washington State and offers the following evidence we produce environmentally preferable roofing materials:

- ✓ Since 1984, Malarkey has utilized methane gas from a nearby wastewater treatment plant to help power our Portland glass mat plant and roofing mill. Our *Methane Recovery Project* earned Malarkey the 1985 *Governor's Energy Award for Outstanding Achievements in Energy Conservation*.
- ✓ We have *Environmental Product Declarations* (EPD) for our shingle products, as well as most of our roll products.
- ✓ We have earned GreenCircle<sup>1</sup> Certifications for using *recycled content* in the manufacturing of multiple shingle products, and Malarkey is the only North American roofing manufacturer to earn GreenCircle Certification for *Waste Diversion from Landfill* at all its facilities.
- ✓ Our NEX<sup>®</sup> asphalt technology uses specific polymers from repurposed materials like tire rubber and plastic milk jugs to enhance the performance characteristics of our shingles and underlayments.

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<sup>1</sup> GreenCircle Certified, LLC (Royersford, PA) provides independent, 3<sup>rd</sup> party verification that a manufacturer's claims of sustainable aspects of products and operations are valid. Products labeled with a GreenCircle Certified mark have been thoroughly assessed and their claims verified to applicable standards.



- ✓ NEX® technology results in much lower emissions than the highly-pollutive oxidation process used to make traditional shingles.
- ✓ Our 3M™ Smog-Reducing Granules harness sunlight to photocatalytically convert smog into water-soluble ions, actively reducing smog air pollution.
- ✓ At the end of their useful life, asphalt shingles can avoid landfills and be recycled in most major metropolitan areas. The shingles are ground up and used widely in paving applications.
- ✓ Along with asphalt-based products, Malarkey offers the Advanced Vegetative Roof System (AVRS®) green roof system which provides many energy-saving and environmental benefits.

#### **6.5a Reduced Heat-Island Effect: Roofing**

- ✓ Malarkey makes roofing products with Cool Roof granule colors that reflect the sun's rays and help buildings and homes stay cooler, thereby counteracting the Urban Heat Island Effect.
- ✓ Cool roofs help decrease building energy costs and extend roof service life.
- ✓ Malarkey's products with Cool Roofing Granules have measured radiative property values listed with the Cool Roof Rating Council (CRRC) and can be used to comply with California Energy Code Title 24, Part 6 and Los Angeles County Cool Roof Requirements.

#### **6.6 Socially Sustainable Products**

- ✓ Malarkey has an internal recycling program that refunds the moneys generated by the program back to the employees to incentivize participation and promote continuous improvement in the recycling program. A full-time employee is dedicated to this program.
- ✓ We have voluntarily entered the *Columbia Slough Cleanup Program* with the Oregon Department of Environmental Quality.
- ✓ We perform regular Industrial Hygiene testing in all our plants to ensure a safe environment for employees.
- ✓ Malarkey has formal *Safety* and *Hazard Identification* programs that encourage, recognize, and reward employees for exemplary actions in identifying both hazards and environmental opportunities in the plants where they work.
- ✓ We perform rigorous new employee training as well as annual training days in personal finance, cyber security, health and wellness, first aid, CPR, and safety.
- ✓ Our summer internship program provides college students with real-world experience as they work alongside Malarkey employees and prepare for the day when they are the ones occupying the desks, labs, and production lines of future employers.
- ✓ Along with generous health insurance and 401(k) plans, Malarkey has an Employee Assistance Program to help our employees enjoy a healthy life away from work.

Malarkey is proud to be a conscientious employer and offer a family of roofing products designed for sustainability, superior performance, reliability, and limited impact on the environment. We are dedicated to keeping roofing materials out of the waste stream and preserving the quality of life on our planet.

Contact Malarkey Technical Services with questions at (800) 545-1191 or (503) 283-1191, 7:00 am to 5:00 pm, Pacific Time, or email us at [technicalinquiries@malarkeyroofing.com](mailto:technicalinquiries@malarkeyroofing.com).