TECHNICAL BULLETIN

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

The *Evergreen Sustainable Development Standard* (ESDS) is a program created by the State of Washington Department of Commerce to set building performance standards for affordable housing projects or programs seeking funds from the state's Housing Trust Fund. "ESDS is based on the nationally-recognized Green Communities standard created by Enterprise Community Partners, with modifications to reflect Washington State priorities and building codes. ESDS contains criteria that safeguard health and safety, increase durability, promote sustainable living, preserve the environment, and increase energy and water efficiency."

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:

6.01b Healthier Material Selection – Advanced (formerly Environmentally Preferable Materials)

- ✓ We have *Environmental Product Declarations* (EPD) for our shingle products, as well as most of our roll products.

6.02a & b Embodied Carbon Reduction – Materials and Regional Sourcing

Requirements: Use products that were extracted, processed, and manufactured within 500 miles of the project for a minimum of 90%, based on weight or on cost, of the amount of the product category installed in the project.

- ✓ 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:
  - In 1985, Malarkey's *Methane Recovery Project* received the *Governor's Energy Award for Outstanding Achievements in Energy Conservation*. Although no longer in use, we continue to look for other ways to improve our energy usage.

- NEX® Polymer Modified Asphalt technology results in much lower emissions than the highly-pollutive oxidation process used to make traditional shingles.

6.03 Construction Waste Management

Requirements: Reduce the amount of waste sent to the landfill.

- ✓ We have earned GreenCircle[1] 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® 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.
- ✓ 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.

6.04a Reduced Heat-Island Effect: Roofing

Requirements: Use a roofing product(s) that complies with the appropriate option below. The Solar Reflectance Index (SRI) values shall be based on a minimum three-year-aged solar reflectance and thermal emittance, as measured in accordance with CRRC-1, and shall be certified by the manufacturer.

- ✓ 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.

6.05 Socially Sustainable Products

Requirements: Choose building products from manufacturers that support a broader socially sustainable mission, outside of their environmental mission, including the safety and health of their own workers.

- ✓ 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.

[1] GreenCircle Certified, LLC (Royersford, PA) provides independent, 3rd 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.

- ✓ 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 malarkey.technicalinquiries@amrize.com.

Additional resource: Washington State Department of Commerce/Evergreen Sustainable Development Standard website: https://www.commerce.wa.gov/multifamily-rental-housing/evergreen-standard/

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