Life-Cycle Sustainability Overview

Understanding the environmental impact of our products is essential to improving sustainability across every stage of their life cycle. That's why AMFISOL B.V. has conducted a comprehensive life-cycle sustainability assessment of our solar mounting system, examining six key phases—from design to end-of-life. This document outlines how we integrate sustainability into each phase of our product journey.

I. Design Phase

Our in-house R&D team brings over 140 years of combined expertise in solar mounting systems. During the design process, we prioritize not only performance, quality, and cost—but also environmental responsibility.

Materials

- We select materials with proven durability under exposure to sunlight, temperature fluctuations, and humidity.

- Our engineers understand the strengths and limitations of plastics, including recycled and glass-fiber-reinforced variants.

- Only materials are used that retain mechanical integrity over time, can be fully separated and recycled.

Production

- Designs are optimized for compatibility with our suppliers' advanced production equipment.

- This ensures efficient use of raw materials, reduced energy consumption, and streamlined manufacturing processes.

Packaging

- Packaging is tailored to component size and fragility, using recycled cardboard and recyclable materials.

- We avoid unnecessary packaging and ensure all materials can be separated and recycled after use.

Transportation

- Components are designed to nest efficiently, maximizing pallet space and minimizing transport volume.

- This reduces the number of shipments required, lowering fuel consumption and emissions.

II. Raw Material

- All components are made from 100% recyclable materials and contain no hazardous substances.

- We use UV- and temperature-resistant polypropylene (PP) reinforced with glass fiber for long-term durability.

- Components are free from adhesives or mixed materials, allowing easy separation and recycling.

- All parts are made from the same material. This makes sorting / reworking at End of Life even easier.

III. Manufacturing

Energy

- Our manufacturing partners use low-energy machinery and prioritize renewable energy sources, including solar and wind.

Waste

- All PP waste generated during production is collected and recycled directly at the manufacturing site.

Location

- Actually all components are made in Belgium - Overtime we will consider manufacturing in other countries closer to the local markets, to avoid transportation costs.

IV. Distribution & Packaging

Packaging

- Small components are packed in medium-sized boxes made from 100% recycled cardboard, sealed with eco-friendly tape.

- Larger items, such as mounting profiles, are stacked on wooden pallets and wrapped using a minimum of recyclable material, but keeping maximum strength.

Distribution

- We collaborate with a network of local distributors to reduce transport distances and consolidate shipments.

- Our logistics partners operate across Europe and are selected for their commitment to low-emission transport planning.

V. Product Use

- Our mounting systems are engineered for a minimum service life of 25 years, matching the lifespan of solar panels.

- No cleaning or maintenance of the mounting components is required during use.

- Periodic inspection of panel clamps is recommended to monitor potential UV-related wear.

VI. End-of-Life

- All components can be fully disassembled without specialized tools.

- Materials are 100% recyclable and free from harmful substances.

- Systems can be reused or separated for recycling with minimal effort, supporting circularity and waste reduction.

At AMFISOL B.V., sustainability is built into every phase of our product life cycle. From design to disposal, we strive to minimize environmental impact and contribute to a cleaner, more responsible energy future.

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