



# SUSTAINABLE flooring

Our quality of life depends on the environment. And future generations will also depend on it. Responsible treatment of the environment is therefore a must. This has been Forbo's credo ever since our company was founded in 1928.

We started with linoleum, a product based on naturally grown raw materials. We manufacture environmentally compatible, fully recyclable products by using efficient production methods that cut down on scrap, waste, emissions, and energy loss. Our products consistently win awards for their design and performance.

From an ergonomic, economical and ecological point of view, our linoleum is the natural choice for floor coverings and furniture surfaces. We provide a clear insight into our environmental performance and into our commitment to continued process improvement.

Life-cycle analyses (LCAs) are applied throughout the world to quantify the potential environmental impacts of a product system over the life-cycle (i.e. from the extraction of the raw materials to the disposal of the product at the end of its useful life). A product's 'eco-balance' is based on an analysis of its durability and other production considerations.

Forbo floor coverings are leading the way. Based on our LCA results, Marmoleum ranks first as a nature-friendly floor covering along with pure, un-lacquered wood. In addition, our Marmoleum product lines earned an honorable mention for their long lifespan.

From the indoor environment to the natural environment, Forbo's products and services combine design and function to create better environments.



FLOORING SYSTEMS

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Member of the Alliance for Sustainable Built Environments

Credit	Description	LEED-NC Requirement	Solution
Materials & Resources Credit 1.2 1 Point (NC & Schools)	Building Reuse - Maintain Interior Nonstructural Elements	To extend the life cycle of existing building stock, conserve resources, retain cultural resources, reduce waste and reduce environmental impacts of new buildings as they relate to material manufacturing and transport. Use existing interior nonstructural elements (e.g., interior walls, doors, floor coverings and ceiling systems) in at least 50% (by area) of completed building, including additions.	<b>Forbo Flooring Systems Flooring Products</b> Although this credit is not controlled by the manufacturer it can be part of a project's sustainable strategy. The selection of projects with historical significance and extended System Service Life floor coverings such as Forbo Marmoleum makes those projects more likely.
Materials & Resources Credit 2 1-2 Points (NC, Schools & CS)	Construction Waste Management	To divert construction and demolition debris from disposal in landfills and incineration facilities. Redirect recyclable recovered resources back to the manufacturing process and reusable materials to appropriate sites. (50% or 75% recycled or salvaged)	<b>Forbo Marmoleum:</b> Real, Vivace, Fresco, Striato, Piano, Walton, Mineral, Graphic, Prisma, Dutch Design, Marmoleum CP Sheet <b>Marmoleum Plains:</b> Bulletin Board Cork, Desk Top <b>Forbo Nuway Entrance Systems</b>
Materials & Resources Credit 4 1-2 Points (NC, Schools & CS)	Recycled Content	Use materials with a recycled content of at least 10% of the total value of the materials in the project. Earn an additional point for achieving a recycled content of 20%.	<b>Forbo Marmoleum:</b> Real, Vivace, Fresco, Striato, Piano, Walton, Mineral, Graphic, Prisma, Dutch Design, Dual Tile, MCT, Marmoleum CP Sheet, Click 2 <b>Marmoleum Plains:</b> Bulletin Board Cork, Desk Top <b>Marmoleum Wall Panels</b> <b>Forbo Nuway Entrance Systems</b> <b>Forbo Flotex Tile</b>
Materials & Resources Credit 5 1-2 Points (NC, Schools & CS)	Regional Materials	To increase demand for building materials and products that are extracted and manufactured within the region, thereby supporting the use of indigenous resources and reducing the environmental impacts resulting from transportation.	<b>Forbo Wall Base</b> <b>Forbo Adhesives:</b> L-910, T-940, V-920, C-930, MS-885, MT-885, 660, Forbo Wall Base Adhesive, FRS-920, FRT-950
Materials & Resources Credit 6 1 Point (NC, Schools & CS)	Rapidly Renewable Materials	Use rapidly renewable building materials and products (made from plants that are typically harvested within a ten-year cycle or shorter) for 2.5% of the total value of all building materials and products used in the project, based on cost.	<b>Forbo Marmoleum:</b> Real, Vivace, Fresco, Striato, Piano, Walton, Mineral, Graphic, Prisma, Dutch Design, Dual Tile, MCT, Marmoleum CP Sheet, Click 2 <b>Marmoleum Plains:</b> Bulletin Board Cork, Desk Top <b>Marmoleum Wall Panels</b>

Credit	Description	LEED-NC Requirement	Solution
Indoor Environmental Quality Credit 4.1 1 Point (NC, Schools & CS)	Low-emitting Materials: Adhesives & Sealants	To reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants. The VOC content of adhesives and sealants used must be less than the current VOC content limits of South Coast Air Quality Management District (SCAQMD) Rule #1168.	<b>Forbo Adhesives:</b> L-910, T-940, V-920, C-930, MS-885, MT-885, 660, Forbo Wall Base Adhesive, FRS-920, FRT-950
Indoor Environmental Quality Credit 4.3 1 Point (NC, Schools & CS)	Low-emitting Materials: Flooring Systems	To reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants. OPTION 2 All Flooring elements installed in the building interior must meet the testing and product requirements of the California Department of Health.	<b>Forbo Flooring Systems Floor Coverings</b>
Indoor Environmental Quality Credit 5 1 Point (NC, Schools & CS)	Indoor Chemical and Pollutant Source Control	To minimize building occupants exposure to potentially hazardous particulates and chemical pollutants. Employ permanent entry systems at least 10 feet long in the primary direction of travel to capture dirt and particulates entering the buildings at the regularly used exterior entrances.	<b>Forbo Nuway and Coral Entrance Systems</b>
Innovation & Design Process Credit 1 1-5 Points (NC, Schools & CS)	Innovation in Design	Earn points for exceptional performance above the requirements set by the LEED Green Building Rating System and/or innovative performance in Green building categories not specifically addressed. Each innovation can earn one point for a total of five points.	<b>Specification for products that have Consensus based multi-attribute Sustainable Product Standards (SMaRT)</b> <b>Forbo Marmoleum:</b> Real, Vivace, Fresco, Striato, Piano, Walton, Mineral, Graphic, Prisma, Dutch Design, Dual Tile, MCT, Marmoleum CP Sheet, Click 2 <b>Marmoleum Plains:</b> Bulletin Board Cork, Desk Top
Regional Bonus Credit 1.1-1.4 1-4 Points (Schools & CS)	Region Specific Environmental Priority: Region Defined	Achieve one of the six credits that has been identified as regionally important by the regional authority where the LEED project is located. Each credit can earn one point for a maximum of four points.	Credits achieved through Forbo solutions may contribute to these credits.

**Note:** Use of the particular products/solutions listed in this grid contribute toward the efforts to achieve LEED points in these specific categories, however, use of these products/solutions alone does not guarantee achievement of point criteria or LEED certification of a building.