

POLYTURF PLUS LEED INFORMATION

MR CREDIT 1.2 BUILDING REUSE – MAINTAIN INTERIOR NONSTRUCTURAL ELEMENTS (1 POINT)

INTENT

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 materials manufacturing and transport.

REQUIREMENTS

Use existing interior nonstructural elements (e.g., interior walls, doors, floor coverings and ceiling systems) in at least 50% (by area) of the completed building including additions. If the project includes an addition with square footage more than 2 times the square footage of the existing building, this credit is not applicable.

POTENTIAL TECHNOLOGIES & STRATEGIES

Consider reusing existing building structures, envelopes and interior nonstructural elements. Remove elements that pose a contamination risk to building occupants and upgrade components that would improve energy and water efficiency, such as mechanical systems and plumbing fixtures. Quantify the extent of building reuse.

How does PolyTurf Plus Pad and Pour apply to this credit?

“ PolyTurf Plus Pad and Pour is considered a permanent nonstructural flooring system that can be restored to its original appearance by re-coating the surface. It is also possible to install an alternative type of flooring over the top with some installation systems thereby reducing or eliminating the need to remove the existing floor covering.”

MR CREDIT 2 CONSTRUCTION WASTE MANAGEMENT (1-2 POINTS)

INTENT

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.

REQUIREMENTS

Recycle and/or salvage nonhazardous construction and demolition debris. Develop and implement a construction waste management plan that, at a minimum, identifies the materials to be diverted from disposal and whether the materials will be sorted on-site or comingled. Excavated soil and land-clearing debris do not contribute to this credit. Calculations can be done by weight or volume, but must be consistent throughout. The minimum percentage debris to be recycled or salvaged for each point threshold is as follows:



RECYCLED OR SALVAGED	POINTS
50%	1
75%	2

POTENTIAL TECHNOLOGIES & STRATEGIES

Establish goals for diversion from disposal in landfills and incineration facilities and adopt a construction waste management plan to achieve these goals. Consider recycling cardboard, metal, brick, mineral fiber panel, concrete, plastic, clean wood, glass, gypsum wallboard, carpet and insulation. Construction debris processed into a recycled content commodity that has an open market value (e.g., wood derived fuel (WDF), alternative daily cover material, etc.) may be applied to the construction waste calculation. Designate a specific area(s) on the construction site for segregated or comingled collection of recyclable materials, and track recycling efforts throughout the construction process. Identify construction haulers and recyclers to handle the designated materials. Note that diversion may include donation of materials to charitable organizations and salvage of materials on-site.

How does PolyTurf Plus Pad and Pour apply to this credit?

“ PolyTurf Plus Pad and Pour can be removed and recycled.”

MR CREDIT 3 MATERIALS REUSE (1-2 POINTS)

INTENT

To reuse building materials and products to reduce demand for virgin materials and reduce waste, thereby lessening impacts associated with the extraction and processing of virgin resources.

REQUIREMENTS

Use salvaged, refurbished or reused materials, the sum of which constitutes at least 5% or 10% , based on cost, of the total value of materials on the project. The minimum percentage materials reused for each point threshold is as follows:



RECYCLED OR SALVAGED	POINTS
5%	1
10%	2

Mechanical, electrical and plumbing components, and specialty items such as elevators and equipment cannot be included in this calculation. Include only materials permanently installed in the project. Furniture may be included if it is included consistently in MR Credit 3: Materials Reuse through MR Credit 7: Certified Wood.

POTENTIAL TECHNOLOGIES & STRATEGIES

Identify opportunities to incorporate salvaged materials into the building design and research potential material suppliers. Consider salvaged materials such as beams and posts, flooring, paneling, doors and frames, cabinetry and furniture, brick, and decorative items.

(Continue)

How does PolyTurf Plus Pad and Pour apply to this credit?

“ PolyTurf Plus Pad and Pour is considered a permanent addition that can be restored to a new appearance through resurfacing..”

**MR CREDIT 4
RECYCLED CONTENT (1-2 POINTS)**

INTENT

To increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials.

REQUIREMENTS

Use materials with recycled content such that the sum of postconsumer recycled content plus 1/2 of the preconsumer content constitutes at least 10% or 20%, based on cost, of the total value of the materials in the project. The minimum percentage materials recycled for each point threshold is as follows:

RECYCLED OR SALVAGED	POINTS
10%	1
20%	2

The recycled content value of a material assembly is determined by weight. The recycled fraction of the assembly is then multiplied by the cost of assembly to determine the recycled content value. Mechanical, electrical and plumbing components, and specialty items such as elevators cannot be included in this calculation. Include only materials permanently installed in the project. Furniture may be included if it is included consistently in MR Credit 3: Materials Reuse through MR Credit 7: Certified Wood.

POTENTIAL TECHNOLOGIES & STRATEGIES

Establish a project goal for recycled content materials and identify material suppliers that can achieve this goal. During construction, ensure that the specified recycled content materials are installed. Consider a range of environmental, economic and performance attributes when selecting products and materials.

1. Recycled content is defined in accordance with the International Organization of Standards document, ISO 14021 – Environmental labels and declarations – Self-declared environmental claims (Type II environmental labeling).

2. Postconsumer material is defined as waste material generated by households or by commercial, industrial and institutional facilities in their role as end-users of the product, which can no longer be used for its intended purpose.

3. Preconsumer material is defined as material diverted from the waste stream during the manufacturing process. Re-utilization of materials (i.e., rework, regrind or scrap generated in a process and capable of being reclaimed within the same process that generated it) is excluded.

How does PolyTurf Plus Pad and Pour apply to this credit?

“ PolyTurf Plus Pad and Pour rubber base mats are constructed of nearly 100% post-consumer product. Specifically, recycled car tires which reduces this material from entering into a land fill or being incinerated.”

**MR CREDIT 5
REGIONAL MATERIALS (1-2 POINTS)**

INTENT

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.

REQUIREMENTS

Use building materials or products that have been extracted, harvested or recovered, as well as manufactured, within 500 miles of the project site for a minimum of 10% or 20%, based on cost, of the total materials value. If only a fraction of a product or material is extracted, harvested, or recovered and manufactured locally, then only that percentage (by weight) must contribute to the regional value. The minimum percentage regional materials for each point threshold are as follows:

RECYCLED OR SALVAGED	POINTS
10%	1
20%	2

Mechanical, electrical and plumbing components, and specialty items such as elevators and equipment must not be included in this calculation. Include only materials permanently installed in the project. Furniture may be included if it is included consistently in MR Credit 3: Materials Reuse through MR Credit 7: Certified Wood.

POTENTIAL TECHNOLOGIES & STRATEGIES

Establish a project goal for locally sourced materials, and identify materials and material suppliers that can achieve this goal. During construction, ensure that the specified local materials are installed and quantify the total percentage of local materials installed. Consider a range of environmental, economic and performance attributes when selecting products and materials.

How does PolyTurf Plus Pad and Pour apply to this credit?

“ PolyTurf Plus Pad and Pour rubber base mat material is manufactured and extracted in Lancaster, Pennsylvania 17601. ”

**MR CREDIT 6
RAPIDLY RENEWABLE MATERIALS (1 POINT)**

INTENT

To reduce the use and depletion of finite raw materials and long-cycle renewable materials by replacing them with rapidly renewable materials.

REQUIREMENTS

Use rapidly renewable building materials and products for 2.5% of the total value of all building materials and products used in the project, based on cost. Rapidly renewable building materials and products are made from plants that are typically harvested within a 10-year or shorter cycle.

POTENTIAL TECHNOLOGIES & STRATEGIES

Establish a project goal for rapidly renewable materials and identify products and suppliers that can support achievement of this goal. Consider materials such as bamboo, wool, cotton insulation, agrifiber, linoleum, wheatboard, strawboard and cork. During construction, ensure that the specified renewable materials are installed.

How does PolyTurf Plus Pad and Pour apply to this credit?

““ *The Liquid-applied PU Components (pore sealer and wear coats) contain bio-based material that is rapidly renewable. Percentages of bio-based material by weight are as follows: Beypur 420 pore sealer: 35%, Beypur 440 wear coat: 43.7%. To calculate the credit for PolyTurf Plus Pad and Pour products, use the following formula: (% Bio-based) x (\$ Per Unit) = (Value of Credit) + (Addition of all Components) = Total Cost (delivered and installed) ””*

IEQ CREDIT 4

LOW-EMITTING MATERIALS (1-3 POINTS)

INTENT

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.

REQUIREMENTS

Projects may choose any of the following credits, with a maximum of 4 points.

CREDIT 4.1.

ADHESIVES AND SEALANTS (1 POINT)

All adhesives and sealants installed in the building interior (defined as inside the weatherproofing system and applied on-site) must meet the testing and product requirements of the California Department of Health Services Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda.

How does PolyTurf Plus Pad and Pour apply to this credit?

““ *Non-solvent VOC compliant adhesives are used such as Mapei G21 Non-Solvent Reactive Adhesive.*””

CREDIT 4.2.

PAINTS AND COATINGS (1 POINT)

All paints and coatings installed in the building interior must meet the testing and product requirements of the California Department of Health Services Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda.

How does PolyTurf Plus Pad and Pour apply to this credit?

““ *Our Water Based Top Coat contains no solvents.*””

CREDIT 4.3.

FLOORING SYSTEMS (1 POINT)

All flooring elements installed in the building interior must meet the testing and product requirements of the California Department of Health Services Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers, including 2004 Addenda.

How does PolyTurf Plus Pad and Pour apply to this credit?

““ *Base Mat, PU Components, and Water Based Top Coat comply with California VOC requirements. (EPA method 24 ASTM D2369 with all pore sealers and wear coats have VOC content less than 1 gram per liter)*””

POTENTIAL TECHNOLOGIES & STRATEGIES

Clearly specify requirements for product testing and/ or certification in the construction documents. Some programs that offer verification of the cited standard for Options 1-4 and 6 are Indoor Advantage Gold, GREENGUARD Children & Schools, the Resilient Floor Covering Institute's FloorScore program, the Carpet and Rug Institute's Green Label Plus program, and the Collaborative for High Performance Schools product list. Indoor Advantage Gold offers verification of the BIFMA standard cited in Option C of the Furniture Option.