



March 16, 2011

Subject: LEED® credit on Tarco products

To Whom It May Concern:

The following is a summary of the Leadership in Energy and Environmental Design (LEED) program and LEED points earned in accordance with the Green Building Rating System through the use of various Tarco roofing materials.

Leadership in Energy and environmental Design (LEED) is a program administered by the U.S. Green Building Council (USGBC), a recognized international standard for *Green* buildings. LEED incorporates the design and construction of the entire building envelope, of which the roofing system is a key part. LEED certification is earned based on meeting specified energy and environmental criteria. As per the rating system described in "LEED 2009 For New Construction & Major Renovations", projects are awarded certifications (Certified, Silver, Gold, or Platinum), based on the points earned as given below:

- CERTIFIED - 40 to 49 points
- SILVER - 50 to 59 points
- GOLD - 60 to 79 points
- PLATINUM - 80 to 110 points

Whereas seven categories deal with LEED design criteria, Tarco roofing products qualify for LEED points based on "Energy and Atmosphere (EA)", "Materials and Resources (MR)", and "Indoor Environmental Quality (IEQ)" categories as described below.

(1) EA Credit 1: Optimize Energy Performance:

The intent of this credit is to achieve increasing levels of energy performance beyond the prerequisite standard to reduce environmental and economic impacts associated with excessive energy use. Through this credit, up to 19 points can be earned by demonstrating a percentage improvement in the proposed building performance rating compared with the baseline building performance rating. Achieving 48% improvement in energy performance for new buildings and 44% improvement in energy performance for existing building renovations can earn the full 19 points.

Application of Tarco self-adhesive roofing underlayments to the entire roof deck and the use of Tarco Door & Window Tape along with an appropriate air barrier can help achieve points thru' this category.

(2) MR Credit 2: Construction Waste Management:

The intent of this credit is to divert construction and demolition debris from disposal in landfills and incineration facilities, and redirect recyclable recovered resources back to the manufacturing process



and reusable materials to appropriate sites. One or two points are earned if 50 or 75 percentage debris respectively is recycled or salvaged.

As stated in the Table below, Tarco products contain the following materials that can contribute to earning points under this category.

MATERIAL	CATEGORY	UNIT WEIGHT
Banding	Plastic	<1 lb/pallet
Carton	Paper	2 lbs/roll
Core	Cardboard	1 lb/roll
Pallet	Wood	50 lbs/pallet
Shrink bag	Plastic	2 lbs/pallet
Staples, banding clips	Metal	<1 lb/pallet
Stretch film	Plastic	2 lbs/pallet

(3) MR Credit 4: Recycled Content:

The intent of this credit is to increase demand for building products that incorporate recycled content materials, thereby reducing impacts resulting from extraction and processing of virgin materials. One or two points are earned if the sum of post-consumer recycled content plus ½ of the pre-consumer content constitutes 10 or 20 percent respectively of the total value of the materials used at the project.

The below Table lists the various Tarco products that contain post-consumer and pre-consumer recycled materials and thereby qualify to earn points under this category.

TARCO PRODUCT	POST-CONSUMER	PRE-CONSUMER
#15 Felt	50%	-----
#30 Felt	50%	-----
EasyMop SBS	5%	-----
EasyStick Plus	5%	-----
Fast90	-----	38%
MS300	-----	35%
PS200 ^{HT}	4%	-----
TuffTile UDL	-----	40%



(4) MR Credit 5: Regional Materials:

The intent of this credit is 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. One or two points are earned if the total material value, based on cost, of building materials or products extracted, harvested, or recovered, as well as manufactured, within 500 miles of the project site is at least 10 or 20 percent respectively. If only a fraction of a product or material is extracted, harvested, or recovered and manufactured locally, then only that percentage (by weight) can contribute to the regional value.

All Tarco products are manufactured in the United States at facilities at the following locations.

- Belton, Texas
- Little Rock, Arkansas
- Greencastle, Pennsylvania

For a project specific letter on location of the manufacturing plant and percentage of raw materials that are extracted, harvested, or recovered within 500 miles of the project location, please contact your Tarco Sales Representative.

(5) IEQ Credit 3.1: Construction Indoor Air Quality Management Plan - During Construction:

The intent of this credit is to reduce indoor air quality (IAQ) problems resulting from construction or renovation and promote the comfort and well being of construction workers and building occupants. One points can be earned thru' this credit.

One of the requirements of this credit is to protect stored on-site and installed absorptive materials from moisture damage. Tarco self-adhesive roofing underlayments as well as Tarco Door & Window Tape used along with an appropriate air barrier can prevent moisture entry and thus protect absorptive materials from moisture damage.

It is important to note that roofing constitutes only a part of the whole building envelope, and Tarco roofing products may be used only as a part of the entire roofing assembly.

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