

**John Dalton**  
Specialty Building Materials  
Commercial Construction-Americas

May 5, 2014

RE: Grace Waterproofing and Air Barrier Materials  
LEED 2009 Green Building Rating System™

To Whom It May Concern:

This letter will detail the contribution of Grace Waterproofing and Air Barrier materials to the LEED 2009 Green Building Rating System™ for New Construction, Major Renovations of existing buildings, Core & Shell and Schools.

**MR Credit 2.1: Construction Waste Management, Divert 50% from Disposal**

**MR Credit 2.2: Construction Waste Management, Divert 75% from Disposal**

In areas where facilities exist, the following Grace Waterproofing and Air Barrier materials are recyclable and can contribute to earning Materials and Resources Credit 2.1 and Credit 2.2.

- |                 |                |              |
|-----------------|----------------|--------------|
| • Wooden Pallet | wood           | 45 lbs       |
| • Sheet core    | cardboard      | 3 lbs/core   |
| • Carton        | cardboard      | 4 lbs/carton |
| • Pail          | steel          | 2 lbs/pail   |
| • Pail          | HDPE (plastic) | 2 lbs/pail   |
| • Drum          | steel          | 29 lbs/drum  |
| • Drum          | fiber          | 12 lbs/drum  |

**MR Credit 4.1: Recycled Content, 10%**

**MR Credit 4.2: Recycled Content, 20%**

The recycled content of Grace Waterproofing and Air Barrier materials is as follows and can contribute to earning Materials and Resources Credit 4.1 and Credit 4.2. All other Grace Waterproofing and Air Barrier materials not listed below do not contain recycled content, 0% Post Consumer and 0% Post Industrial.

<u>Grace Product</u>	<u>Wt. Percent Post Industrial Recycled Content</u>	<u>Wt. Percent Post Consumer Recycled Content</u>
Hydroduct® 200	89%	0%
Hydroduct® 220	86%	0%
Hydroduct® 225	83%	0%
Hydroduct® 660	83%	0%
HydroCoil® 600	92%	0%

**MR Credit 5.1: Regional Materials, 10% Extracted, Processed & Manufactured Regionally**

**MR Credit 5.2: Regional Materials, 20% Extracted, Processed & Manufactured Regionally**

Grace Waterproofing and Air Barrier materials are manufactured in several locations in North America. If these locations fall within a 500-mile radius of the project site and the location the raw materials used to make the finished product are extracted, recovered or harvested within a 500-mile radius of the project, then these materials or a portion of the materials can contribute to earning Materials and Resources Credit 5.1 and Credit 5.2.



The following are the locations of the Grace Waterproofing and Air Barrier materials manufacturing plants:

<u>Plant Location</u>	<u>Product</u>
Bedford Park, IL	Vycor enV, Perm-A-Barrier VP, Perm-A-Barrier Liquid, Perm-A-Barrier VPO and Procor
Chicago, IL, Mount Pleasant, TN	Perm-A-Barrier VPL Perm-A-Barrier Wall Membrane, Perm-A-Barrier Wall Flashing, Perm-A-Barrier Detail Membrane, Perm-A-Barrier Aluminum Wall Membrane, Perm-A-Barrier Aluminum Flashing, Bituthene materials, Preprufe materials and Florprufe materials
Newburyport, MA	Perm-A-Barrier VPS
Union County, NC	All Hydroduct materials
Fort Worth, TX	Adcor ES and Adcor ES Adhesive

Please contact your local Grace Representative to request a project specific letter pertaining to Credit 5.1 and Credit 5.2. The letter will provide the quantity of raw materials that are extracted, recovered or harvested within 500 miles of the project location.

**MR Credit 6: Rapidly Renewable Materials**

None of the Grace Waterproofing and Air Barrier materials are made from or contain any rapidly renewable materials.

**MR Credit 7: Certified Wood**

None of the Grace Waterproofing and Air Barrier materials are made from or contain any wood-based materials. MR Credit 7 is not applicable to Grace Waterproofing and Air Barrier materials.

**EQ Credit 4.2: Low Emitting Materials, Paints & Coatings**

EQ Credit 4.2 pertains to products that are to be used in the interior of a building. Grace Waterproofing and Air Barrier materials are applied onto the exterior of a structure and therefore would not contribute to this credit. However, Grace has provided the volatile organic content (VOC) of Grace Waterproofing and Air Barrier materials listed below.

<u>Grace Product</u>	<u>VOC Content g/L</u>
Perm-A-Barrier Liquid (Part A and B)	75 (as applied)
Perm-A-Barrier WB Primer	10
Perm-A-Barrier VP	20
Procor (all types)	75 (as applied)
Perm-A-Barrier Primer Plus	Less than 1
Perm-A-Barrier VPO	Less than 20
Perm-A-Barrier VPL	Less than 20

Please feel free to contact me with any additional questions or information.

Sincerely,



John Dalton  
Technical Services Manager  
W.R. Grace

