## LEED® CREDIT FOR GFRP Rebar in Building - USA

Energy & Atmosphere						
Credit No.	Credit Name	Credit Requirements	Product Compliance			
Prerequisite 2 & Credit 1	Minimum & Optimize Energy Performance	Design building to be energy efficient and model design against ASHRAE/IESNA 90.1-2004/2007. Achieve 2pts or 14% energy efficiency for a new building or 7% for a renovation. (10% and 5% respectively for LEED 2009)	Product is thermally non-conductiveand therefore does not act as a thermal bridge.			

Materials & Resources					
Credit No.	Credit Name	Credit Requirements	Product Compliance		
2.1 & 2.2	Construction Waste Management: 50% and 75%	Divert 50% to 75% project construction wastefrom landfill	Product is 100% recyclable. Product can be crushed along with concrete, does not have to be separated.		
4.1 & 4.2	Recycled Content: 10% and 20% (post consumer + ½ post industrial)	10% to 20% recycled content as a project average (by weight) of all div.2-10 project materials.	Product contains 2% post-industrial recycled content.		
5.1 & 5.2	Regional Materials 10% and 20%	Materials or products that have been extracted, harvested or recovered, as well asmanufactured, within 500 miles of the projectsite for a minimum of 10% (based on cost) ofthe total materials value. If only a fraction of a product or material is extracted/harvested/recovered and manufactured locally, then only that percentage (by weight) shall contribute to theregional value.	All Product is made in Canada and USA. Depending on the project site this product may meet the requirements.		

Innovation	Innovation & Design Process				
Credit No.	Credit Name	Credit Requirements			
Credit 1 through 1.4 (LEED 2009 allows 5 pts)	Innovation in Design	To provide design teams and projects the opportunity to achieve exceptional performance above the requirements set by the LEED Green Building Rating System and/or innovative performance in Green Buildi categories not specifically addressed by the LEED Green BuildingRating System.			
Innovation 1	GHG Reduction – During transport	Compared to conventional rebar, less GHG's are emitted during transport of GFRP Bars because it is lightweight (4x lighter than conventional re-bar) and easily transported in high volumes. If a project team were to specify a significant % of products used on a project based on GHG's emitted during transport, this product would meet the requirements of the innovation.			
Innovation 2	Conserving Resources	GFRP Bars does not corrode or oxidize in water applications and therefore the building code requires approximately half the concrete cover of conventional re-bar depending on the application. If a project team were to specify a significant % of materials and finishes based on using the least amount of material and or finishes, this product would meet the requirements of the innovation in certain applications.			
Innovation 3	Reducing Toxins in potable water	GFRP Bars does not leach toxins or corrode when installed in a water application. If a project team were to specify a significant percentage of their potable water piping and storage tanks based on having low or NO toxins released into potable water, this product would meet the requirements of the innovation.			
Innovation 4	Durable Building	Similar to the Durable Building Credit in the Canadian version of the LEED rating system. If a project team were to develop and implement a durable building plan that includes choosing durable materials and components which reduce the need for new materials and the environmental costs of resource extraction, production processes andwaste disposal. Product facilitates durable building because it does not oxidize or causeconcrete to crack. Testing shows that the product maintains structural integrity for over 100 years extending the life of concrete and thus saving resources. *Testing available from manufacturer upon request.			