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ARCHITECTURAL PRODUCTS DIVISION

- Wall Protection Systems
- Entrance Mats And Gratings
- Athletic Flooring Systems
- Industrial Impact Protection Systems
- Parking And Traffic Safety Products

MR Credit 4.1/4.2 Recycled Content, RG-250 Entrance Matting With Carpet Insert

The RG-250 entrance grating consists of an alternating series of aluminum rails and thermoplastic hinges, such that the rails and hinges are in parallel and articulate in a manner that allows the matting to be rolled for cleaning. The primary walking surface consists of a carpet material as selected from one of three insert choices. The aluminum rails are cushioned from the flooring substrate by a flexible cushion installed in the bottom of each rail.

The recycled content of this product is given as a percentage calculated by comparing the weight of the product to the weight of the recycled materials it contains. The net weight of the matting is the sum total of the weights of the aluminum rails, hinges, carpet insert, and flexible cushion. With a carpet insert, this product weighs 3.84 pounds per square foot. This value is subject to variation due to the standard manufacturing tolerances of the component parts. The aluminum, which contains all of the recycled content, is approximately 2.48 pounds per square foot or 64.6% of the total weight.

The aluminum can be further divided into post-consumer and pre-consumer recycled content as follows:

Post-Consumer:	10%
Pre-Consumer:	60%
Primary Aluminum:	30%

In accordance with guidelines set forth in USGBC – LEED V2.2, the recycled content of the aluminum is:

$$\text{Post-Consumer} + 1/2 * \text{Pre-Consumer} = 10\% + 1/2*60\% = 40\%$$

Applying this percentage to the aluminum, the recycled content of the grating is 18% of the product by weight $((40\%*2.48)/3.84 = 26\%)$. This value may be applied to the project cost of this product and added to similar values for the total project in order to determine LEED credit applicability for MR Credits 4.1 and 4.2.