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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-400 Entrance Grating With Carpet Insert

The RG-400 Drain-Well grating system consists of a series of parallel aluminum rails, referred to as “tread rails”. The tread rails are secured to a series of parallel supports, or “cross supports,” positioned perpendicular to the tread rails. Inserts installed in each tread rail constitute the primary walking surface of the grating. In addition to other material options, inserts are available in a choice of three carpet products. The aluminum cross supports are cushioned from the flooring substrate by a flexible cushion installed along the bottom of each cross support.

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 grating is the sum total of the weights of the aluminum rails, cross supports, carpet insert, and flexible cushion. With a carpet insert, this product weighs 3.2 pounds per square foot. This value is subject to variation due to standard manufacturing tolerances of the component parts. The aluminum, which contains all of the recycled content, is approximately 2.57 pounds per square foot or 80% 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 32% of the product by weight ((40%*2.57)/3.2 = 32%). 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 applicability of MR Credits 4.1 and 4.2.