



MR Credit 4.1/4.2 Recycled Content, G-200 Entrance Grating

The G-200 entrance grating consists of a series of parallel aluminum rails assembled using nylon spacers and threaded rods such that openings are provided between rails to allow debris to fall through into the recess below. The primary walking surface is created by the sculpted shape of the aluminum profile extrusion. The aluminum rails are cushioned from the flooring substrate by the nylon spacers which occur every 12" between all rails.

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, nylon spacers, and threaded rods. This product weighs 2.68 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 2.38 pounds per square foot or 88.8% 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 36% of the product by weight $((40\% * 2.38) / 2.68 = 36\%)$. 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.