

MR Credit 4.1/4.2 Recycled Content, 2375 Endwall Guard

The 2375 flush mounted endwall guard consists of two aluminum retainers, flexible impact cushions, and an extruded thermoplastic snap-on cover. The cover is designed to work in conjunction with the aluminum retainers such that the assembly will absorb significant impact without damage to the materials or surrounding construction. The width of the cover varies with the finished thickness of the wall construction. The maximum width for this product using standard components is 7 1/4". Recycled content is calculated at this width providing a minimum recycled content. As width decreases the recycled percentage increases.

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 end wall guard assembly is 2.1 pounds per linear foot. This value represents the sum of the weights of retainers, cushions, and cover combined and is subject to variation resulting from standard manufacturing tolerances.

The recycled content of this corner guard is contained solely in the retainer as follows:

Post Consumer Scrap:	10%
Post Industrial Scrap:	60%
Primary Aluminum:	30%

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

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

Applying this percentage to the weight of the retainer, the recycled content of the corner guard assembly is 20% of the product by weight $((40\% * 1.06) / 2.1 = 20\%)$. 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.