

MR Credit 4.1/4.2 Recycled Content, 2130 Wallguard

The 2130 wallguard consists of an extruded aluminum retainer, an extruded thermoplastic snap-on cover, and an extruded flexible impact cushion. The cover is designed to work in conjunction with the retainer and impact cushion such that the assembly will absorb significant impact without damage to the materials or surrounding construction.

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 wall guard assembly is 1.77 pounds per linear foot. This value represents the sum of the weights of the retainer, cushion, and cover extrusions and is subject to variation resulting from standard manufacturing tolerances.

The recycled content of this wall 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 wallguard assembly is 21% of the product by weight $((40\% * .92) / 1.77 = 21\%)$. 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.