

LEED v4 Material Resources (MR)

MRc5 Construction and Demolition Waste Management for ASC Steel Deck

Applicable Credits:

MRc5.1 OPTION 1. Diversion: ASC Steel Deck products are made from steel and are 100% recyclable. Metal is a common waste stream identified by projects seeking this option.

MRc5.2 OPTION 2. Reduction of Total Waste Material: The structural strength of ASC Steel Deck relative to its light weight and shear strength in combination with its ease of construction results in less material use and reduced material waste. In addition, ASC Steel Deck products are manufactured on a “cut-to-size” bases at the plant, eliminating waste at the job site. The aesthetic qualities of ASC Steel Deck are also an added benefit which can reduce overall material use when the product is used as an exposed finish.

Notable References:

(Option 1) This credit rewards a project for diverting waste from the landfill. Total diversion rates of 50% or more (into at least three material streams) earn 1 point; Total diversion rates of 75% or more (into at least four material streams) earns 2 points.

- The concept of individual waste streams is new to LEED v4.
- As a best practice, a material stream should constitute at least 5% by weight or volume of total diverted materials. It is typical practice to prioritize waste streams based on those materials that weigh the most, making steel a viable candidate for an individual waste stream.

(Option 2) This credit rewards a project for reduction of total waste material (2 points). To meet the requirement, there can be no more than 2.5 pounds of construction waste per square foot of the building's floor area.

- This option requires planning during the design phase for material source reduction
- Prefabrication, modular construction, or incorporating standard material lengths or sizes into the project's design are all examples of source reduction that will help reduce waste. Structural steel floor and roof deck are manufactured on a “cut-to-size” bases at the plant, contributing to the reduction of waste.