



LEED v4 Material Resources (MR)
MRc3.2 Building Product Disclosure and Optimization
Leadership Extraction Practices for ASC Steel Deck

Applicable Credits:

MRc3.2 Option 2: Leadership Extraction Practices (1 point)

ASC Steel Deck products will always contain post-consumer recycled content steel. LEED v4 allows a default value of 25% for post-consumer recycled steel. ASC Steel Deck purchases steel made from a Basic Oxygen Furnace (BOF) facility. While actual recycled content may be higher, the 25% default value allowed by LEED is used for LEED v4 reporting.

Upon your request, ASC Steel Deck can purchase steel with a higher recycled content that is made in an Electric Arc Furnace (EAF). Steel purchased by ASC Steel Deck made in an EAF contains an average total recycled content of 50-70% (30-40% post-consumer and 20-35% pre-consumer). This steel will have a longer lead-time than our standard material. Lead-time for high recycled steel could be as long as 12 weeks from purchase order acceptance.

Notable Reference:

(Option 2) Credit is based on material cost and recognizes the effect recycled content percentages have on a component-by-component cost basis (1/2 pre-consumer content + post-consumer content).

Product Sourcing: There are no raw material sources (mills) or steel recycling operations which can be used for purposes of producing steel deck panels located within a 100-mile radius of an ASC Steel Deck manufacturing location. Please note, the term 'extracted or recovered' refers to the extraction of iron ore or the melting of recycling materials. Iron ore is mined around the globe and blended to produce specific grades of steel. Currently, there is no formal process to track the origin of iron ore transported and traded on global commodity markets. Furthermore, there are currently no mining operations or steel recycling operations west of St Louis, Missouri, that can fulfill the extracted, harvested, or recovered, component of this credit.

Under LEED v4, Structure and Enclosure can only account for 30% of total Material Requirement.

Ex: Project with total cost of building material and furniture: \$15,000,000 total value

- LEED Goal 35% Recycled Content = \$5,250,000 (35% X \$15M)
- 30% of total material requirement from structure and enclosure = \$1,575,000 (30% X \$5,250,000)
 - Structural Steel is \$1,500,000 value of product - 90% recycled content = \$1,350,000 towards LEED Goal
 - Enclosure Products is \$2,000,000 value of products - 10% recycled content - \$200,000 towards LEED Goal
 - Steel Floor/Roof Deck is \$150,000 value of product - 25% recycled content - \$37,500 towards LEED Goal
 - Total contribution from structure and enclosure = \$1,587,500
- In this example, the Structure and Enclosure requirement has exceeded the maximum 30% contribution.
- Any requirement for higher than the default 25% postconsumer content for the steel deck would result in higher costs and longer lead-times, without adding to the overall recycled content goal for the project.

Note: We can provide a third-party certified Product-Specific Type III EPD.