

CarbonCast Double Tees Potential Precast Point Contributions to LEED®

Category	Credit or Prerequisite	Points Available LEED 2009	Comments
Sustainable Sites			
SS Credit 5.1	Site Development: Protect or Restore Habitat	1	<ul style="list-style-type: none"> Erection practices limit site disturbance to prescribed distances from the building
SS Credit 7.1	Heat Island Effect: Non-Roof	1	<ul style="list-style-type: none"> Parking structures place 50% or more parking under cover High albedo concrete reflects energy back into the atmosphere and decreases cooling loads
Materials and Resources			
MR Credit 2.1, 2	Construction Waste Management: Divert 50% from Disposal; Divert 75% from Disposal	2	<ul style="list-style-type: none"> Recycling crushed concrete into road bases or construction fill; used to form artificial barriers for shorelines Erection does not contribute to construction site waste, since components are manufactured off site
MR Credit 4.1	Recycled Content: 10% (post-consumer + pre-consumer)	1	<ul style="list-style-type: none"> Recycled concrete or slag as aggregate (post-consumer content) and supplementary cementitious materials, such as silica fume and slag cement (pre-consumer content); doubling this requirement may contribute to an Innovation and Design credit Steel reinforcement can be manufactured from recycled steel
MR Credit 5.1, 2	Regional Materials: 10% and 20% Extracted, Processed and Manufactured Region	2	<ul style="list-style-type: none"> Components are most often transported and erected within 200 miles of the plant; use of local cements, aggregates and other raw materials keeps transportation distances to a minimum
Indoor Environmental Quality			
EQ Credit 3.1	Construction Indoor Air Quality Management Plan: During Construction	1	<ul style="list-style-type: none"> No on-site fabrication, reducing airborne particles; is not damaged by moisture, and concrete does not support mold growth
Innovation and Design Process			
ID Credit 1.1	Innovation in Design	1	<ul style="list-style-type: none"> An ID credit may be achieved due to exemplary performance of credit MRc4.1, 2
ID Credit 1.2	Innovation in Design	1	<ul style="list-style-type: none"> Lighter weight, alternative reinforcement and materials reduce embedded energy and permit non-corrosive and more durable concrete
ID Credit 1.3	Innovation in Design	1	<ul style="list-style-type: none"> Eliminate need for high carbon-footprint chemical sealers
ID Credit 1.4	Innovation in Design	1	<ul style="list-style-type: none"> Reduce use of cement without affecting structural performance
ID Credit 1.5	Innovation in Design	1	<ul style="list-style-type: none"> Reduce superstructure and foundation requirements
ID Credit 2	LEED® Accredited Professional	1	<ul style="list-style-type: none"> LEED AP: Many precasters have qualified LEED APs on staff to lead and support a project