

Summary of USGBC LEED® Points Earned Using Segmental Concrete Pavement

Credit	Requirements	LEED® Strategies	Solutions & Resources	Points
SS 6.1 Sustainable Sites Stormwater Design: Quantity Control	<50% site imperviousness: reduce to pre-development peak discharge and quantity for a 2 year, 24-hour storm; >50% site imperviousness: 25% volume decrease from 2 year, 24-hour storm	Stormwater management plan/permeable paving	Permeable interlocking concrete pavement (PICP) Resource: PICP design manual by ICPI*	1
SS 6.2 Sustainable Sites Stormwater Design: Quality Control	Capture and treat 90% of average annual rainfall (0.5 to 1 in. or 13 to 25 mm depending on region) Remove 80% of total suspended solids (TSS)	Natural or mechanical treatment systems	Permeable interlocking concrete pavement (PICP) Resource: PICP design manual by ICPI* and research papers demonstrating rainfall capture and TSS removal	1
SS 7.1 Sustainable Sites Heat Island Effect: Non-Roof	50% of site hardscape covered with tree shade in 5 years; paving with minimum 29 solar reflectance index (SRI) materials or with grid pavement OR Place parking under roof or in ground; minimum 29 SRI on roof or deck	Use high albedo materials or concrete grid paving with grass; underground parking Exemplary credit available	Concrete grid pavement or >29 SRI concrete paving units Resources: <i>ICPI Tech Spec 8 Concrete Grid Pavements</i> ; Request SRI data from ICPI producer member for concrete pavers or paving slabs	1
SS 7.2 Sustainable Sites Heat Island Effect: Roof	At least 75% of roof with minimum 29 solar reflectance index (SRI) for steep-sloped roof OR At least 50% vegetated roof OR Low slope roof with minimum 78 SRI	Use high albedo materials and green roofs Exemplary credit available	Solid pavers or precast concrete paving slabs with high SRI Resources: Request SRI data from ICPI Producer member for concrete pavers or paving slabs	1**
WE 1.1 WE 1.2 Water-efficient landscaping	Reduce potable water use for irrigation by 50% Eliminate potable water use for irrigation (100% reduction)	High efficiency irrigation, water harvesting via gray water ground & roof collection systems for irrigation and/or building gray water use	Use PICP base for water storage & harvesting	WE 1.1:1 WE 1.2: 2
WE 3.1 WE 3.2 Water use reduction	Reduce bldg water use by 20% Reduce bldg water use by 30%	Credit 3: Exemplary credit available at 40% reduction	Use PICP base for water storage & harvesting	WE 3.1:1 WE 3.2:2
MR 2.1 MR 2.2 Materials and Resources Construction Site Waste Management	Divert and/or salvage at least 50% or 75% of construction debris from disposal (by weight or volume); develop and implement a construction waste management plan	Reuse existing demolition debris such that is not sent to landfills Exemplary credit available	Crush and reuse existing concrete pavers on- or off-site and reuse as base material	MR 2.1: 1** MR 2.2: 2**
MR 3.1 MR 3.2 Materials and Resources Materials Reuse	Use salvaged, refurbished or reused materials for at least 5% or 10% of the total building costs	Incorporate salvaged building materials into building and site	Use salvaged pavers from former sites to contribute to design goal Resources: ICPI Tech Spec 6	MR 3.1 5%: 1** MR 3.2 10%:2**
MR 4.1 MR 4.2 Materials and Resources Recycled Content	Use materials with recycled content 10% or 20%: 100% post-consumer and 50% post- industrial (pre-consumer) recycled waste; calculations are cost based	Establish project goal, identify and audit material suppliers Exemplary credit available	Use concrete pavers with supplementary cementing materials such as flyash or slag Resource: ICPI Producer members	MR 4.1 10%:1** MR 4.2 20%:2**

MR 5.1 Materials and Resources Regional Materials	A minimum of 10% of materials extracted, processed and manufactured regionally (<500 mi. or 800 km) A minimum of 20% of materials extracted, processed and manufactured regionally (< 500 mi. or 800 km)	Establish project goal, identify and audit material suppliers; provide product cut sheets and/or manufacturer's letters indicating transportation mode and distance to project site	Use locally manufactured concrete pavers and aggregate materials Resource: ICPI Producer members	MR 5.1: 1** MR 5.2: 2**
MR 5.2 Materials and Resources Regional Materials		Exemplary credit available		
ID 1-1.4 Innovative Design	Innovative design beyond current LEED® credits	Strategies or measures beyond LEED®	Identify proposed innovation that exceeds LEED® credit performance and quantify environmental/health benefits (See Table 2 for some ideas)	1 to 4*
ID 2.1 LEED® Accredited Professional	At least one LEED® AP on project design team	Apply LEED® rating system early in project design; integrate design and construction processes	Thousands of LEED® APs available for project consultation	1*
POSSIBLE TOTAL POINTS				21

* visit www.icpi.org for more information

** concrete segmental paving contributes to the overall design goal for these credits