

Summary of USGBC LEED® v2.2 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/pervious 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	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	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**
SS 2.1 SS 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	Crush and reuse existing concrete pavers on- or off-site and reuse as base material	1**
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 5% or 10%: 100% post- consumer and 50% pre- consumer (post-industrial) recycled waste; calculations are cost based	Establish project goal, identify and audit material suppliers	Use concrete pavers with supplementary cementing materials such as flyash or slag Resource: ICPI Producer members	MR 4.1 5%: 1** MR 4.2 10%:2**
MR 5.1 Materials and Resources Regional Materials	A minimum of 20% of materials manufactured regionally (<500 mi. or 800 km)	Establish project goal, identify and audit material suppliers	Use locally manufactured concrete pavers and aggregate materials Resource: ICPI Producer members	1**
MR 5.2 Materials and Resources Regional Materials	A minimum of 50% of materials extracted regionally (< 500 mi. or 800 km)	Establish project goal, identify and audit material suppliers	Use locally extracted materials for pavers and base Resource: ICPI Producer members	1**
ID 1-1.4 Innovative Design ID 2.1 LEED® Accredited Professional	Innovative design beyond current LEED® credits At least one LEED® AP on project design team	Strategies or measures beyond LEED® Apply LEED® rating system early in project design; integrate design and construction processes	Identify proposed innovation that exceeds LEED® credit performance and quantify environmental/health benefits Over 18,000 LEED® APs available for project consultation	1 to 4* 1*

For more details see *ICPI Tech Spec 16 Achieving LEED® Credits with Segmental Concrete Pavements* available at www.icpi.org.

*Visit www.icpi.org for more information. **Concrete paving units contribute to overall design goal for these credits.

***Visit www.icpi.org to find the closest producers or suppliers.