

LEED For Homes Program Version 1.11a January 2007

Rating Category	Credit Description	Points	Discussion of Asphalt Pavement Applicability/Contribution to Rating Category
Sustainable Sites			
SS 3.	Shading of Hardscapes	1	<p>Requirements for this credit allow the use of pavement surfaces having reflectance of at least 0.3 over 50% of the site's non-roof impervious surface. Attaining this credit with asphalt pavements is achievable by coating the pavement surface to raise the Solar Reflectance Index (SRI). This approach allows the designer to capture the economy of using asphalt pavement while also expressing creativity and ingenuity. Coatings of virtually any color are available to treat asphalt pavement. This allows the designer to raise the SRI and integrate features such as color designated pavement areas. Another treatment that raises albedo is "sealing and chipping" using limestone or other light colored aggregate. Sealing and chipping is low cost and provides an agrarian look. Lastly, a simple slurry application of portland cement following paving, while the asphalt surface is still hot, fills and coats the surface to raise SRI.</p> <p>Coating Colors for LEED Credit: http://www.integratedpaving.com/leed/ ODOT Specification - Sealing & Chipping: http://www.dot.state.oh.us/construction/OCA/Specs/Rewrite2005/2005SpecBook/2005_422_10-22-04.doc</p>
SS 4.	Surface Water Management	6 max.	<p>Porous asphalt pavement (i.e. pervious paving) constructed on a recharge bed reduces stormwater flow rate and quantity leaving the site. Potentially, site discharge and flow and can be reduced below predevelopment conditions through conveyance of roof drainage, and other stormwater flows, to the pavement recharge bed.</p> <p>Design Guide: http://store.hotmix.org/index.php?productID=179 Specification (porous base mix): http://www.flexiblepavements.org/documents/PPbase20Jly07.pdf Specification (porous surface mix): http://www.flexiblepavements.org/documents/PPsurf20July07.pdf</p>
Materials & Resources			
MR 2.	Environmentally Preferable Products	8 max.	<p>Credit can be obtained for using products that are extracted, processed and manufactured within 500 miles of the home. Asphalt pavements utilize indigenous resources and reduce environmental impacts resulting from transportation. Asphalt pavements must be placed hot; therefore these mixtures must be produced locally, typically with local aggregate. Ohio Department of Transportation Construction & Materials Specifications restrict haul distance to 50 miles; thereby ensuring the asphalt mix is manufactured regionally.</p>