LEED BD+C: Core and Shell | v3 - LEED 2009

Avoidance of chemicals of concern

MRpc54 | Possible 1 point

Glossary

Intent

To increase the use of products and materials that disclose chemical ingredient data and reduce the concentrations of chemical contaminants that can damage air quality, human health, productivity, and the environment.

Requirements

Credit Closed

This credit closed to new registrations on February 15, 2013. Projects that registered for the pilot credit prior to February 15, 2013 may continue to pursue the credit.

Use a minimum of 20%, by cost, of at least 3 building product and material types meeting one of the options below.

Chemical avoidance

Option 1. Avoidance

Use third party certified building products and materials that do not contain intentionally added substances present in the end product over the reporting thresholds below. Calculate compliant building products and materials at cost.

Substance	Allowed Concentration
Lead and lead compounds	0.01% by mass (100 ppm)
Mercury	0.01% by mass (100 ppm)
Cadmium	0.01% by mass (100 ppm)
Anitmony	0.01% by mass (100 ppm)
Hexavalent Chromium	0.01% by mass (100 ppm)
Perfluorinated Compounds (PFCs)	0.01% by mass (100 ppm)
Carcinogens listed in California's Proposition 65	0.01% by mass (100 ppm)
For projects outside the U.S. additionally avoid carcinogens listed on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) substances of very high concern (SVHC) Candidate List	Under levels that would trigger notification

AND/OR

Option 2. Additional avoidance

Meet the requirements of Option 1.

AND

Use third party certified building products and materials that do not contain intentionally added substances present in the end product over the reporting thresholds below. Calculate compliant building products and materials at twice the cost.

Substance	Allowed Concentration
Halogenated organic compounds including: • Chlorinated polyethylene (CPE) • Chlorinated polyvinyl chloride (CPVC) • Chlorosulfonated polyethylene (CSPE) • Polychloroprene (CR or chloroprene rubber, also brand name Neoprene) • Polyvinyl chloride (PVC) • Fluorinated ethylene propylene (FEP)	0.01% by mass (100 ppm)
Brominated or halogenated flame retardants (BFRs and HFRs) containing bromine, chlorine, or fluorine including: • PBDEs (polybrominated diphenyl ether), including Deca-BDE (Decabromodiphenyl ether) • Tetrabromobisphenol-A (TBBPA) • Hexabromocyclododecane (HBCD) • Tris(2-chloroisopropyl) phosphate (TCPP) • Tris(2-chloroethyl)phosphate (TCEP) • Dechlorane Plus 0.01% by mass (100 ppm)	0.01% by mass (100 ppm)
Phthalates including: • - Butyl Benzyl Phthalate (BBP) • -Di(2-Ethylhexyl)Phthalate (DEHP) • - Di-N-Octyl Phthalate (DNOP) • - Di-N-Pentyl Phthalate (DNPP) • - Dibutyl Phthalate (DBP) • - Diisobutyl Phthalate (DIBP) • - Diisodecyl Phthalate (DIDP) • - Diisononyl Phthalate (DINP) • - Di-N-Hexylphthalate (DNHP)	0.01% by mass (100 ppm)
Benzidine Dyes	0.01% by mass (100 ppm)
Bisphenol A	0.01% by mass (100 ppm)
Short-chain chlorinated paraffins	0.01% by mass (100 ppm)

Toluene Diisocyanate (TDI)	0.01% by mass (100 ppm)
Chemicals known to cause reproductive toxicity listed in California's Proposition 65	0.01% by mass (100 ppm)
For projects outside the U.S.: Additionally avoid chemicals listed as toxic for reproduction on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) substances of very high concern (SVHC) Candidate List	Under levels that would trigger notification.

[1]From the EPA's Chemical Action Plans (US Environmental Protection Agency, Pollution Prevention and
Toxics, Existing Chemicals Program (US EPA PPT)
http://www.epa.gov/oppt/existingchemicals/)
Specific listing from California Prop 65 (California Office of Environmental Health Hazard Assessment
(OEHHA) list of Chemicals Known to the State to Cause Cancer or Reproductive Toxicity, Safe Drinking Water
and Toxic Enforcement Act of 1986 (Proposition 65)
http://www.oehha.ca.gov/prop65/prop65_list/Newlist.html)

Submittals

General

REGISTER FOR THE PILOT CREDIT

- Participate in the LEEDuser pilot credit forum
- Complete the feedback survey:

CREDITS 1-14

CREDITS 15-27

CREDITS 28-42

CREDITS 43-56

CREDITS 57-67

CREDITS 68-82

CREDITS 83-103

Additional questions

1. Did your project use the actual or default materials cost to determine the total materials cost?
2. How did your team determine or estimate the actual materials cost? What method was used?
3. Where there any challenges in determining the total materials cost? What were they?
4. If applicable, how would using the actual materials cost verses the default materials cost have effected credit achievement?