



IgCC Voting Guide for Urban Heat Island and Cool Surface Proposals

Prop. #	Proponent	What it does	Cmte. Decision	GCCA Recommendation	
GG77	Jay Crandell, ARES/ERA	Adds roof reflectance (408.3) to the list of measures that jurisdictions must opt-in to in order for the provision to be part of the jurisdictional adoption of IgCC. The reason given is that heat islands are an urban issue.	Approve	Oppose. Creates extra steps to adopt UHI requirements. Unnecessary code language (cities can already modify IgCC to meet their needs).	
PC1	Jay Crandell, ARES/ERA	Approve as submitted		Oppose. See above.	
PC2	Jay Crandell, ARES/ERA	Strikes out the jurisdictional opt-in and points the cool roof requirements in Ch. 4 to Ch. 6.		Oppose. Totally unrelated to the original proposal. Uses this approved proposal to pass a disapproved one (GG164).	
PC3	Amy Dickie, GCCA	Strikes the reference to climate zones so that cool roofs can be a jurisdictional opt-in in any CZ.		Support.	
GG156	Heather Dylla Natl. Asphalt Paving Ass.	Removes reflectivity requirements for site hardscapes, currently in section 408.2.1.	Disapprove	Oppose. Guts a key element of the heat island section provisions in Chapter 4 of the IgCC and removes any “stretch” over IECC.	
PC1	Heather Dylla	Makes hardscape reflectivity a project		Significant weakens the heat island section of IgCC. Many options/trade-offs are	

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		elective for developers.		already provided for flexible compliance in this section, so there is no need to make it an elective.	
GG162	Jay Crandell, ARES	Adds the ballast exception to roof reflectivity requirement. References 90.1 and the DOE/ORNL study.	Approve	Mild Opposition. The ballast weight requirement is high enough that most projects won't seek this exemption.	
PC1	Jay Crandell, ARES	Approve as modified		Mild opposition. Ballast is not equivalent to cool roofs and not appropriate in all climates.	
PC2	Amy Dickie, GCCA	Disapprove		Support. Although ballasts are not technically equivalent to cool roofs, the weight threshold is high enough that the proposal will have no market effect.	
GG163	Amy Dickie, GCCA	Extends roof reflectivity requirements into CZ 4a and 4b.	Disapprove	Support. Research, city laws, and market growth show that cool roofs are appropriate for energy savings and UHI reduction in CZ 4a and 4b. See Talking Points for more details.	
PC1	Amy Dickie, GCCA	Approve as Submitted		Support. See above.	
PC2	Mike Fisher, ARMA	Disapproval		Oppose.	

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GG164	Mike Fisher, ARMA	Removes the roof reflectivity section from Ch. 4 and adds a pointer to Ch. 6.	Disapprove	Oppose. Moving cool roofs out of Ch. 4 does not recognize their significant UHI reduction benefits.	
PC1	Mike Fisher, ARMA	Keeps pointer to Ch. 6. Increases the reflectivity values by 10% for low-slope. Removes the increases in steep-sloped reflectivity values.		Oppose. In addition to the reasons above, the committee already approved an increase in reflectivity that is different than those proposed here. Also, reflectivity requirements for steep-sloped roofs are in other green codes and should be kept in IgCC as well.	
GG166	Amy Dickie, GCCA	Increases the SR and SRI requirements of 408.3.1 to 0.65 and 78 respectively. This is in line with CalGreen.	Approve	Support. Brings IgCC in line with other green stretch codes.	
PC1	Mike Fisher, ARMA	Lowers the increase to 10%.		Oppose. In addition to the reasons stated for GG164, the SR and SRI values proposed by this comment do not align with one another (i.e. there is an error in the calculation).	
	Craig Tyler (Carlisle)	Lowers the increase to SRI 64 – in-line with LEED and Green Globes		Oppose. This proposal is weaker than the original proposal which was approved by the committee.	

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PC3	Jason Wilen, NRCA	Disapprove. Claims that proposal will save 30% are wrong. CalGreen Tier 2 only applies to hotels and multifamily.		Oppose. The 30% savings holds. This says that ALL ELSE HELD EQUAL, a roof that the energy savings from a roof that has an SRI of 78 will be 30% more efficient than a roof with an SRI of 60, compared with the same baseline. CalGreen has a residential and non-residential section. The residential section includes high rise residential, hotels, and models. Both the residential and non-residential sections of CalGreen require SRI of 78 for low-sloped roofs.	
GG168	Amy Dickie, GCCA	A number of clarifications, including improvements to the convection coefficient.	Disapprove		
PC1	Amy Dickie, GCCA	Minor mods to proposal to address issues raised by Underwriters Laboratory.		Support	
PC2	Mike Fisher, ARMA	Disapprove		Oppose	
GG169	Bob Zabcik, CMRC	Adds specifications to testing requirements to help ensure that the ASTMs are used in ways that are consistent with CRRC-1 (e.g. three year aging, accredited test farms, testing in 3 different climates)	Disapprove	Support. CRRC-1 provides a comprehensive approach to testing that is approved by the broad set of industry stakeholders participating in the CRRC. It relies on ASTMs to define individual components of the testing process.	

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PC1	Bob Zabcik, CMRC	Small revisions to the language.		Approve. See above.	
PC2	Mike Fisher, ARMA	Disapprove		Oppose.	
GEW83	Amy Dickie, GCCA	Specifies that roof surfaces in CZ 4a and 4b shall comply with IECC cool roof requirements.	Disapprove	Support. Adds cool roof language to Ch 6 and makes it consistent with proposals for Ch 4. Acknowledges the energy savings of cool roofs.	
PC1	Amy Dickie, GCCA	Approve as Submitted		Support. See above.	
PC2	Mike Fisher, ARMA	Disapprove		Oppose.	
GG 302	Amy Dickie, GCCA	Adds a section in Ch. 10 that requires that roof products used to recover or replace roofs on existing buildings comply with the Section 402.3 of the IECC. (e.g. only for CZ 1-3).	Disapprove	Support. Clarifies that roof recovering are required to follow the IgCC.	
PC1	Amy Dickie, GCCA	Small revisions to the language		Support	