



# ANSI/CRRC S100 AND CODES UPDATE

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Annual General Membership Meeting  
Las Vegas, NV  
June 12, 2019



# BACKGROUND

- CRRC became an ANSI Standards Developer in 2007
- Developed ANSI/CRRC S100 (formerly CRRC-1 Standard)
  - Consensus-developed standard
  - Covers testing and weathering requirements
  - 2010, 2012, 2016 editions
  - S100 referenced in various energy codes and green programs



ANSI/CRRC S100 (2016)  
Standard Test Methods for Determining  
Radiative Properties of Materials  
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CRRC Board Approved March 9, 2016  
ANSI Approved April 26, 2016



# BACKGROUND (continued)

- S100 is updated every few years in accordance with *ANSI Essential Requirements* and CRRC procedures
- Purpose of updating S100:
  - Introduction of technical changes to CRRC Product Rating Program
  - Consider public proposals to revise S100



# ADMINISTRATION

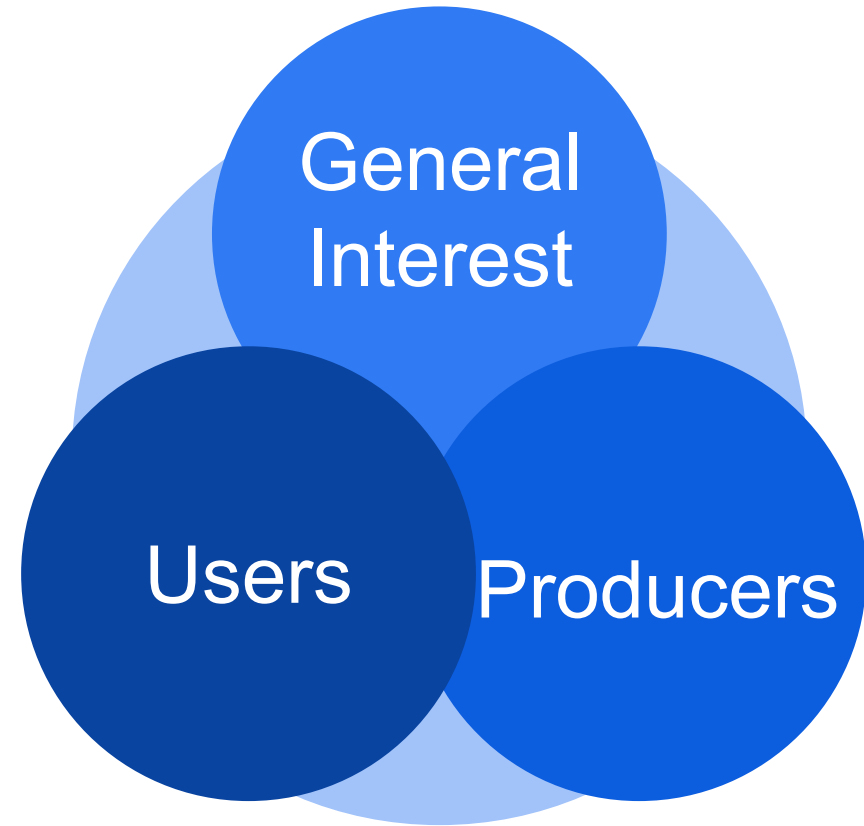
- Process is overseen by CRRC Standards Committee
- Formed by CRRC Board of Directors
- Chaired by Jonathan Humble
- Committee works closely with CRRC staff



# COMMITTEE RESPONSIBILITIES

- Oversees administration of standards development
- Ensures ongoing compliance with ANSI and CRRC requirements
- Responds to ballot and public comments
- Participates in mandatory ANSI audit
- Provides updates to Board
- Forms the Consensus Body
- Facilitates Consensus Body conference calls

- Balanced group of stakeholders
- Evaluates proposed revisions and public comments from technical standpoint
- Approves draft standard





# CONSENSUS BODY ROSTER

| <b>Consensus Body Member</b> | <b>Interest Category</b> | <b>Affiliation</b>                |
|------------------------------|--------------------------|-----------------------------------|
| Jonathan Humble, Chair       | Producer                 | American Iron and Steel Institute |
| Brandon Bethke               | Producer                 | Tempo Chemicals & Solutions       |
| Jeff Blank                   | Producer                 | SR Products                       |
| Mike Crewdson                | User                     | Q-Lab Corporation                 |
| Monica Enamorado             | Producer                 | BASF Corp                         |
| Mike Ennis                   | Producer                 | SPRI                              |
| Mark Gallant                 | Producer                 | Decra Roofing Systems             |
| Mark Graham                  | User                     | NRCA                              |
| Chris Huettig                | Producer                 | KARNAK                            |
| Ronnen Levinson              | General Interest         | LBNL                              |
| William Miller               | General Interest         | University of Tennessee           |
| Charlie Moore                | General Interest         | Devices and Services              |
| Kurt Shickman                | General Interest         | GCCA                              |
| Steven Thorsell              | General Interest         | ICC Evaluation Services           |
| Dave Yarbrough               | User                     | R&D Services                      |



# CURRENT MILESTONES

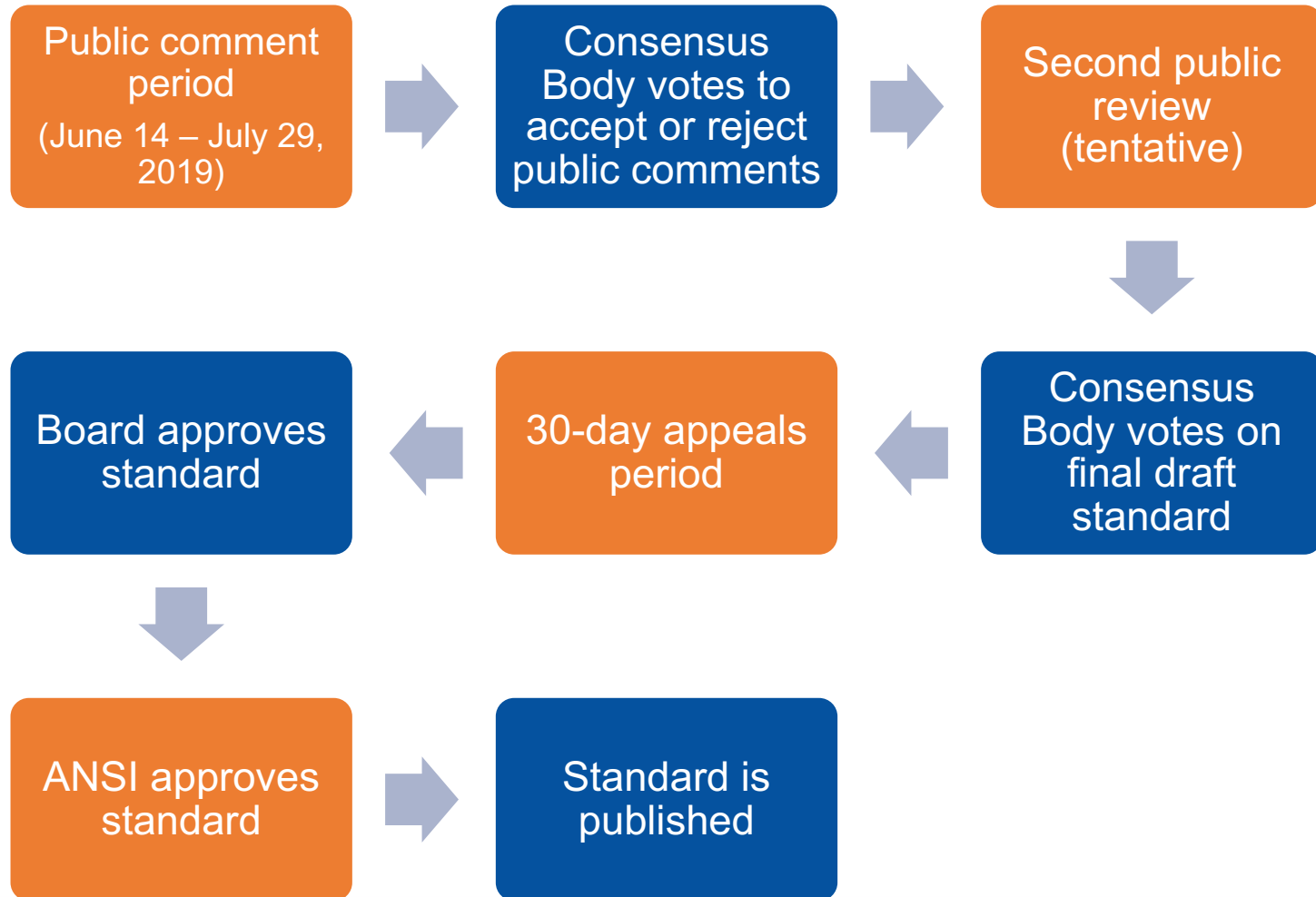
|                                |  |
|--------------------------------|--|
| <b>June 2018 - Feb 2019</b>    | Formation of Consensus Body                        |
| <b>March 11, 2019</b>          | Consensus Body Kickoff Call                        |
| <b>April 15, 2019</b>          | Consensus Body Courtesy Q&A Call on Draft Standard |
| <b>May 10 - June 9, 2019</b>   | Consensus Body Balloting (30 Days)                 |
| <b>June 14 - July 29, 2019</b> | Public Comment Period (45 Days)                    |



# PUBLIC COMMENTS

- 45-Day Public Comment Period opens on June 14
- Accepting comments through July 29, 2019
- Download CRRC comment form and draft standard here:  
<https://coolroofs.org/product-rating/ansi-crrc-s100>
  - *Form must be fully completed*

# NEXT STEPS





# S100 IN CODES & PROGRAMS



# S100 REFERENCES

| Type                            | Code or Program  | Edition              | Summary  |
|---------------------------------|--|----------------------|--|
| Energy Code                     | ASHRAE Standard 90.1   | 2016                 | S100 only recognized standard for compliance<br>S100 will be referenced in the 90.1-2019   |
| Energy Code                     | International Energy Conservation Code (IECC)                                      | 2018                 | S100 and other ASTM test standards used for compliance   |
| High Performance Green Standard | International Green Construction Code (IgCC)<br>(Joint document with ASHRAE 189.1) | 2018                 | S100 only recognized standard for compliance<br><br>Standard 189.1 committee is in process of expanding the climate zone regions for cool roofs from climate zones 0 - 3 to 4A and 4B  |
| Voluntary Green Program         | ANSI/RESNET/ICC 301  | 2014 with amendments | S100 only recognized standard for compliance   |
| Voluntary Green Program         | Leadership in Energy & Environmental Design (LEED)                                 | Version 4.1          | In 2019, USGBC modified Site Sustainability Heat Island provisions to include S100 in the following LEED rating systems:<br><ul style="list-style-type: none"> <li>•Building Design &amp; Construction</li> <li>•Operations &amp; Maintenance</li> <li>•Residential</li> </ul> |



# QUESTIONS?