

**ICC 815 Sizing Water Distribution, Drainage and
Venting Standard Consensus Committee (IS-SWDDV)**

Meeting 26 - Minutes

April 22, 2025

Chair: Gary Klein

Vice Chair: Philip Parisi

Secretariat- Ramiro Mata

Meeting 26 of the ICC 815 Sizing Water Distribution, Drainage and Venting Standard Consensus Committee (IS-SWDDV) was held virtually on April 22, 2025. The meeting was conducted in accordance with ICC's Consensus Procedures. https://www.iccsafe.org/wp-content/uploads/ICC-Consensus-Procedures-ANSI-approved-8_2_21-BOD-apprvd-8_27_21.pdf

1. Welcome – Chairman, Gary Klein, convened the meeting and welcomed attendees at 2:03pm EST (11:03am PST) along with Staff Secretariat, Ramiro Mata. Mata reminded attendees about the ICC Code of Ethics and the Anti-Trust Policy, both of which can be found on the ICC 815 (IS-SWDDV) webpage.
2. Roll Call – Klein called the meeting to order with a roll call of ICC 815 (IS-SWDDV) committee members – Symbol ☒ indicates present, ☐ indicates absent.

Committee Members

Regulator		User		Manufacturer		Builder	
<input checked="" type="checkbox"/>	Jim Richardson	<input checked="" type="checkbox"/>	Esber Andiroglu PhD, PE	<input checked="" type="checkbox"/>	Marcus Elmer	<input checked="" type="checkbox"/>	Dan Buuck
<input checked="" type="checkbox"/>	Richard Grace	<input checked="" type="checkbox"/>	Gary Klein	<input checked="" type="checkbox"/>	Dave Parney		
<input type="checkbox"/>	Terry Haughn	<input checked="" type="checkbox"/>	John Lansing	<input checked="" type="checkbox"/>	Lance MacNevin PE	Consumer	
<input type="checkbox"/>	Ross Wakefield	<input type="checkbox"/>	Philip Parisi Jr. PE	<input type="checkbox"/>	Kyle Thompson PE	<input type="checkbox"/>	Tim Keane
		<input type="checkbox"/>	Tom Wise			SDO/Test Lab	
						<input checked="" type="checkbox"/>	Kathryn (Katie) Foster

ICC Staff – Tom Roberts

Interested Parties and Guests –Bob Carpenter, Rich Houle, Natascha Milesi-Ferretti, David Nickelson, Frank Schmidt, Dan Cole, Andres Lorenz, Mary Kimlinger, Lavanya Muttayan, Steven Buchberger, Mike Cudahy, Drew Rich, Nhat Nguyen

3. Quorum and Membership Review - With ten committee members in attendance, Mata announced the threshold for quorum was met.
4. Approval of meeting minutes from March 17, 2025 – Motion by Lansing, seconded by Richardson. Motion carried.
5. Approval of April 22, 2025 Meeting Agenda – Motion by Richardson, seconded Lansing. Motion carried.
6. Discussion Items
 - a. Project Scope –

- i. The project scope was discussed, and it was decided to include hotels, motels, condo-hotels, and mixed extended-stay hotels as part of residential transient facilities.
 - ii. Richardson confirmed that hotels are classified as residential in the IPC.
 - iii. The committee decided to categorize hotels, motels, condo-hotels, and mixed extended-stay hotels under transient residential.
 - iv. Klein mentioned a study by Carl Hiller that analyzed water use in hotels, finding that peak water use in hotels is typically around 10-15% of the total capacity.
 - b. Gantt Chart
 - i. The committee reviewed the Gantt chart. The working groups have until June to complete their initial draft. The committee will start working on the initial draft of the full standard in September.
 - ii. Klein noted that the committee is close to finalizing the initial draft of the title, purpose, and scope.
 - iii. The working groups have until June to complete their drafts, with a final draft expected in August.
 - iv. The committee will start working on the initial draft of the standard in September.
 - v. Andiroglu mentioned that the framework is running, and that significant reporting will be done at the CIB W062 conference in August.
- 7. Research Update – Rich/Andiroglu
 - i. Andiroglu highlighted the importance of integrating low-resolution data with high-resolution counterparts to interpret and convert data.
 - ii. The committee identified several demographic variables that significantly impact water consumption, including the number of occupants, lot size, and property value.
- 8. Working Groups – Meeting Updates and Work Plans
 - a. Measurement – Lansing
 - i. John Lansing reported on the measurement working group, which has not yet collected data from buildings for the project.
 - ii. The group discussed the difficulties of gaining access to buildings and the need for someone to take over the chair role.
 - b. DWV – Lansing
 - i. The group aims to operate within infrequent and frequent peak flows and identify key aspects for a revised drainage standard.
 - ii. John Lansing mentioned his upcoming role as a visiting scholar at the Heriott-Watt University and his transition to a new position leading research and code development work. He will be leaving for the UK in the next week.
 - iii. The group discussed the challenges of collecting data from buildings and the need for a coordinated effort to install flow sensors.
 - c. Water Service – Wise - Mata reported on the water service working group, which has started working on a draft but has not received responses from the working group members.
 - d. IEP – MacNevin –

- i. Klein, MacNevin and Mata continue to meet with ICC IT Project Managers weekly to develop a conceptual online document aimed at comparing pipe sizes, codes, standards, and availability of plumbing components globally.
 - ii. The International Encyclopedia of Plumbing (IEP) project was discussed, and a minimum viable product (MVP) with ten different components is expected to be ready by late June.
 - iii. The committee discussed the importance of adding more plumbing items from around the world to the IEP and encouraged members to volunteer for this effort.
- 9. Old Action Items
 - a. Restart analysis of Water Research Foundation Project 4039 dataset after Excel data loss issue – **Rich – In process**
 - b. Run statistical analysis to determine if shower usage patterns are statistically the same across different occupancy levels – **Rich – In process**
 - c. Prepare mock layout of database user interface showing types of information needed for the International Encyclopedia of Plumbing (IEP) project – **MacNevin – In process**
 - d. Contact ICC internal connections to find contributors from Middle East and other regions that have adopted ICC Code for the IEP database project – **Mata – In process**
 - e. Follow up with building owner rep regarding sharing of data at the SVEN building – **Parisi – In process**
- 10. New Action Items
 - a. Send use cases document for the International Encyclopedia of Plumbing to the committee members for feedback - **Mata**
 - b. Set up meeting with Andiroglu, Rich and Parisi to discuss framework integration into standard development - **Mata**
 - c. Contact Wise regarding scheduling the next Water Service Working Group meeting - **Mata**
 - d. Send email to Measurement Working Group members regarding the need for new chair volunteer to replace Lansing - **Mata**
 - e. Follow up regarding potential hotel metering project in the Bay Area - **Lansing**
 - f. Schedule next Drainage Working Group meeting after arriving in the UK - **Lansing**
- 11. New Business – Lansing has stepped down as chair of the Measurement Working Group because he will be participating in drainage research at Heriot-Watt University.
- 12. Old Business
 - a. CIB Conference
 - i. Andiroglu provided an update on the 2025 CIB W062 conference, noting strong international attendance and the availability of sponsorship opportunities.
 - ii. The conference will include tours, dinners, and presentations on various topics related to hydraulics, layout, methodologies, and water conservation.
 - iii. The conference coincides with the 50th anniversary of CIB and the 100th birthday of the University of Miami and the City of Coral Gables.
 - iv. Details of the symposium can be found here <https://mcp.miami.edu/cib-w062/index.html>

13. Next Meeting – May 19, 2025, at 2pm-4:30pm Eastern. Virtual format.
14. Adjournment – Motion to adjourn by Lansing, seconded by Klein. Motion carried. Meeting adjourned at 4:07pm EDT (1:07pm PDT)