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ICC STANDARDS - PUBLIC COMMENT FORM

PLEASE SEE INSTRUCTIONS (SUBMITTAL RULES OF PROCEDURES). ALL SUBMITTALS MUST BE IN COMPLIANCE WITH THESE PROCEDURES.

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1) Indicate the format in which you would like to receive your Public Comments Report (PCR):

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Name:	Rob Pickett			Date:	Feb. 2, 2021
Jurisdiction/Company:	RobPickett & Associates, LLC				
Submitted on Behalf of:	Log & Timber Homes Council, NAHB				
Address:	P.O. Box 490				
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Signature on File

3) ***Signature:** _____

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4) Indicate appropriate ICC Standard associated with this Public Proposal – **Please use Acronym:** IS-Log
(See bottom of this form or the instructions for list of Names and Acronyms for the ICC Standards)

5) Indicate the Standard Proposal Number that is being addressed by this Public Comment (if applicable): _____

6) Revision to: Section _____ Table 305.3.1.1 Figure _____

7) **COMMENT** Revise as follows (check BOX and state proposed change):

Revise as follows: Add new text as follows Delete and substitute as follows: Delete without Substitution:

Show the proposed NEW or REVISED or DELETED TEXT in legislative format: Line through text to be deleted. Underline text to be added.

The table graphic below is from the MS Excel Workbook "Support for LTHC Proposals", tab T305.3.1.1. The footnotes to the table are provided in text below the graphic.

TABLE 305.3.1.1
U-FACTOR OF LOG WALL (U_w) BY LOG THICKNESS (W_L) AND SPECIFIC GRAVITY (G_s)

SPECIFIC GRAVITY (G _s)	Average Width																			
	5 in.	5.5 in.	6 in.	6.5 in.	7 in.	7.5 in.	8 in.	8.5 in.	9 in.	9.5 in.	10 in.	10.5 in.	11 in.	11.5 in.	12 in.	13 in.	14 in.	15 in.	16 in.	18 in.
0.29	0.114	0.105	0.097	0.090	0.084	0.079	0.074	0.070	0.067	0.063	0.060	0.058	0.055	0.053	0.044	0.041	0.038	0.036	0.034	0.031
0.3	0.117	0.108	0.099	0.092	0.086	0.081	0.076	0.072	0.068	0.065	0.062	0.059	0.057	0.054	0.045	0.042	0.040	0.037	0.035	0.032
0.31	0.120	0.110	0.102	0.095	0.089	0.083	0.078	0.074	0.070	0.067	0.064	0.061	0.058	0.056	0.046	0.043	0.041	0.038	0.036	0.033
0.32	0.123	0.113	0.104	0.097	0.091	0.085	0.080	0.076	0.072	0.068	0.065	0.062	0.060	0.057	0.047	0.044	0.042	0.039	0.037	0.034
0.33	0.126	0.116	0.107	0.100	0.093	0.087	0.082	0.078	0.074	0.070	0.067	0.064	0.061	0.059	0.049	0.046	0.043	0.040	0.038	0.034
0.34	0.129	0.118	0.109	0.102	0.095	0.089	0.084	0.080	0.076	0.072	0.068	0.065	0.063	0.060	0.050	0.047	0.044	0.041	0.039	0.035
0.35	0.132	0.121	0.112	0.104	0.097	0.092	0.086	0.082	0.077	0.074	0.070	0.067	0.064	0.062	0.051	0.048	0.045	0.042	0.040	0.036
0.36	0.135	0.124	0.115	0.107	0.100	0.094	0.088	0.083	0.079	0.075	0.072	0.069	0.066	0.063	0.052	0.049	0.046	0.043	0.041	0.037
0.37	0.137	0.126	0.117	0.109	0.102	0.096	0.090	0.085	0.081	0.077	0.073	0.070	0.067	0.064	0.053	0.050	0.047	0.044	0.042	0.038
0.38	0.140	0.129	0.120	0.111	0.104	0.098	0.092	0.087	0.083	0.079	0.075	0.072	0.069	0.066	0.055	0.051	0.048	0.045	0.043	0.039
0.39	0.143	0.132	0.122	0.114	0.106	0.100	0.094	0.089	0.085	0.080	0.077	0.073	0.070	0.067	0.056	0.052	0.049	0.046	0.044	0.040
0.4	0.146	0.134	0.125	0.116	0.109	0.102	0.096	0.091	0.086	0.082	0.078	0.075	0.072	0.069	0.057	0.054	0.050	0.048	0.045	0.041
0.41	0.149	0.137	0.127	0.118	0.111	0.104	0.098	0.093	0.088	0.084	0.080	0.076	0.073	0.070	0.058	0.055	0.051	0.049	0.046	0.042
0.42	0.152	0.140	0.129	0.121	0.113	0.106	0.100	0.095	0.090	0.086	0.082	0.078	0.075	0.072	0.060	0.056	0.053	0.050	0.047	0.042
0.43	0.155	0.142	0.132	0.123	0.115	0.108	0.102	0.097	0.092	0.087	0.083	0.080	0.076	0.073	0.061	0.057	0.054	0.051	0.048	0.043
0.45	0.160	0.148	0.137	0.128	0.120	0.112	0.106	0.100	0.095	0.091	0.087	0.083	0.079	0.076	0.063	0.059	0.056	0.053	0.050	0.045
0.46	0.163	0.150	0.139	0.130	0.122	0.114	0.108	0.102	0.097	0.092	0.088	0.084	0.081	0.078	0.065	0.060	0.057	0.054	0.051	0.046
0.47	0.166	0.153	0.142	0.132	0.124	0.117	0.110	0.104	0.099	0.094	0.090	0.086	0.082	0.079	0.066	0.062	0.058	0.055	0.052	0.047
0.48	0.169	0.156	0.144	0.135	0.126	0.119	0.112	0.106	0.101	0.096	0.091	0.087	0.084	0.080	0.067	0.063	0.059	0.056	0.053	0.048
0.49	0.171	0.158	0.147	0.137	0.128	0.121	0.114	0.108	0.102	0.098	0.093	0.089	0.085	0.082	0.068	0.064	0.060	0.057	0.054	0.049
0.51	0.177	0.163	0.152	0.142	0.133	0.125	0.118	0.112	0.106	0.101	0.096	0.092	0.088	0.085	0.071	0.066	0.062	0.059	0.056	0.050
0.53	0.182	0.169	0.157	0.146	0.137	0.129	0.122	0.115	0.110	0.104	0.100	0.095	0.091	0.088	0.073	0.069	0.065	0.061	0.058	0.052
0.54	0.185	0.171	0.159	0.148	0.139	0.131	0.124	0.117	0.111	0.106	0.101	0.097	0.093	0.089	0.074	0.070	0.066	0.062	0.059	0.053
0.55	0.188	0.174	0.161	0.151	0.141	0.133	0.126	0.119	0.113	0.108	0.103	0.099	0.094	0.091	0.076	0.071	0.067	0.063	0.060	0.054
0.56	0.191	0.176	0.164	0.153	0.144	0.135	0.128	0.121	0.115	0.110	0.105	0.100	0.096	0.092	0.077	0.072	0.068	0.064	0.061	0.055
0.57	0.193	0.179	0.166	0.155	0.146	0.137	0.130	0.123	0.117	0.111	0.106	0.102	0.098	0.094	0.078	0.073	0.069	0.065	0.062	0.056
0.62	0.207	0.192	0.178	0.167	0.156	0.147	0.139	0.132	0.126	0.120	0.115	0.110	0.105	0.101	0.084	0.079	0.075	0.070	0.067	0.060
0.70	0.228	0.212	0.197	0.185	0.174	0.164	0.155	0.147	0.140	0.134	0.128	0.122	0.117	0.113	0.094	0.089	0.084	0.079	0.075	0.068

For SI: 1 inch =25.4 mm.

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Notes to Table:

- The tabulated values assume MCs \leq 12 percent.
- Conversion of nominal size to average width can be approximated using the following factors:
 - Flat inside and outside 97.50%
 - Flat inside, profiled outside 88.00%
 - Diameter, notched/coped 83.60%
 - Full round or round inside and outside 78.50%
- To adjust from 12% MCs to specific climate zone, multiply the U-factor by the respective factor.

Example: 7" WL @ Gu-0.35, 0.097

Climate Zone	MCs	Adjustment factor	Resulting U-Factor
Dry	10%	0.9807	0.095
Moist	13%	1.0087	0.098
Warm-Humid	14%	1.0186	0.099
Marine	15%	1.0269	0.100

COMMENT Continued (Attach additional sheets as necessary)

This proposal revises the table to expand the information presented in this prescriptive path option. The purpose is to reduce confusion regarding the use of this table as opposed to nominal dimensions (natural tapered round or milled uniform).

Revisions include adding average widths for 1/2" increments up to 12", 1" increments from 12" to 16", and then 18".

Notes 2 and 3 are added for clarification. Nominal size to average width adjustments can be used when specific documentation is not available. Climate zone impacts the Moisture Content in Service, which affects the U-factor of the wood. The conversion adjusts the 12% MCs to the actual climate condition.

8) **SUPPORTING INFORMATION** (State purpose and reason, and provide substantiation to support proposed change):

SUPPORTING INFORMATION Continued (Attach additional sheets as necessary)

The modified table and added footnotes are important as this is a prescriptive path option. The footnotes effectively modify the tabulated values to reflect the varied nature of products on the market.

While REScheck uses 1" increments, a survey of log profiles and nominal sizes demonstrated that the resulting average width increments can vary as little as 1/8". The proposed increments were found to be sufficiently significant.

There is no cost implication of this change.

PLEASE USE SEPARATE FORM FOR EACH COMMENT

SUBMITTAL AS A DOCUMENT ATTACHMENT TO AN E-MAIL IS PREFERRED

e-mail: kaittaniemi@iccsafe.org Phone: (888) 422-7233 x4205 Fax: (708) 799-0320

If E-MAIL is not available, mail form and disk to: International Code Council, 4051 W. Flossmoor Rd. Country Club Hills, IL 60478

Name of ICC Standard: The following acronyms should be used when designating the name of a Standard.

<u>Acronym</u>	<u>ICC Standard Name</u>
IS-BLE	Standard on Bleachers, Folding and Telescopic Seating, and Grandstands
IS-RHW	Standard for Residential Construction in High Wind Regions
IS-IEDC	Landscape Irrigation Sprinkler and Emitter Standard
IS-LOG	Standard on Design, Construction and Performance of Log Structures
IS-STM	Standard on Design, Construction and Performance of Storm Shelters
A117.1	Standard on Accessible and Usable Buildings and Facilities
IS-STSC	Solar Thermal Collector Standard
IS-STSC	Solar Thermal Systems Standard
IS-PHSC	Pool Solar Heating and Cooling Standard
IS-RCSPI	Rainwater Harvesting Systems
IS-FPI	Standard for Spray-Applied Polyurethane Foam Plastic Insulation
IS-OSMC	Standard for Off-Site Construction: Planning, Design, Fabrication and Assembly
IS-OSMC	Standard for Off-Site Construction: Inspection and Regulatory Compliance