

WALLTITE® XL01 Long Term Thermal Resistance Values Reference Guide

The Long Term Thermal Resistance (LTTR) data presented in this table has been derived from testing conducted and reported in CCMC Evaluation Report #14230-R and to the requirements of:

CAN/ULC-S770-09, Standard Test Method for Determination of Long Term Thermal Resistance of Closed-Cell Thermal Insulating Foams.

Standard CAN/ULC-S770 is referenced in standard CAN/ULC- S705.1 under subsection 5.5.6.

Standard CAN/ULC-S770-09 is referenced in the 2015 National Building Code of Canada in the explanatory note A-9.36.2.4.(1) (see Table A- 9.36.2.4.(1)-D) and states:

“This LTTR value shall be input as the design thermal resistance value for the purpose of energy calculations,”

The product is installed at a maximum nominal thickness of 125 mm in one pass and a minimum nominal thickness of 50 mm. For thickness greater than 125 mm, additional passes are required.

LTTR measurements were conducted by a third party laboratory.

Additional information on the aging process of foam thermal insulations and the design thermal resistance of polyurethane foams is found in Use of Field-Applied Polyurethane Foams in Buildings, Construction Technology Update No. 32, IRC-NRC, M.T. Bomberg, M.K. Kumaran (December 1999)

Thermal Resistance		Thickness	
R-Value (ft ² ·hr·°F/Btu)	RSI (m ² ·°C/W)	(inches)	(mm)
12	2.11	2.2	56
13	2.29	2.4	61
14	2.47	2.6	66
15	2.64	2.8	71
16	2.85	3.0	76
17	2.99	3.1	80
18	3.17	3.3	85
19	3.35	3.5	89
20	3.52	3.7	94
21	3.70	3.9	99
22	3.87	4.1	103
23	4.05	4.2	107
24	4.22	4.4	112
25	4.40	4.6	117
26	4.58	4.8	121
27	4.76	4.9	123
28	4.92	5.0	127
29	5.11	5.2	132
30	5.28	5.4	136
31	5.46	5.5	140
32	5.64	5.7	145
33	5.81	5.9	149
34	5.99	6.1	154
35	6.16	6.2	158
36	6.34	6.4	163
37	6.52	6.6	167
38	6.69	6.8	172
39	6.87	6.9	176
40	7.04	7.1	181
41	7.22	7.3	185
42	7.40	7.5	190
43	7.57	7.6	194
44	7.75	7.8	199
45	7.93	8.0	203
46	8.10	8.2	208
47	8.28	8.4	212
48	8.45	8.5	217
49	8.62	8.7	221
50	8.81	8.9	226

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