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Thermal Resistance Values for the HP+™ Walls

HP+™ Wall E Series

Neopor® Thickness mm (in)	WALLTITE® CM01 Nominal Thickness mm (in)	Effective RSI value*, (m²·K)/W (Effective R-value*, (hr·ft²·°F)/BTU)	
		excluding the contribution of the vented air space and the exterior cladding**	including the contribution of the vented air space and the exterior cladding***
25 (1)	76 (3)	2.82 (16.01)	3.14 (17.83)
38 (1.5)	64 (2.5)	3.09 (17.55)	3.41 (19.36)
38 (1.5)	76 (3)	3.23 (18.34)	3.55 (20.16)
51 (2)	51 (2)	3.32 (18.85)	3.64 (20.67)
51 (2)	64 (2.5)	3.51 (19.93)	3.83 (21.75)
51 (2)	76 (3)	3.65 (20.73)	3.97 (22.54)
64 (2.5)	51 (2)	3.74 (21.24)	4.06 (23.05)
64 (2.5)	64 (2.5)	3.93 (22.32)	4.25 (24.13)

HP+™ Wall X Series

Neopor® Thickness mm (in)	WALLTITE® CM01 Nominal Thickness mm (in)	Effective RSI value*, (m²·K)/W (Effective R-value*, (hr·ft²·°F)/BTU)	
		excluding the contribution of the vented air space and the exterior cladding**	including the contribution of the vented air space and the exterior cladding***
25 (1)	76 (3)	2.89 (16.41)	3.21 (18.23)
38 (1.5)	64 (2.5)	3.15 (17.89)	3.47 (19.70)
38 (1.5)	76 (3)	3.30 (18.74)	3.62 (20.56)
51 (2)	51 (2)	3.38 (19.19)	3.70 (21.01)
51 (2)	64 (2.5)	3.57 (20.27)	3.89 (22.09)
51 (2)	76 (3)	3.72 (21.12)	4.04 (22.94)
64 (2.5)	51 (2)	3.80 (21.58)	4.12 (23.39)
64 (2.5)	64 (2.5)	3.99 (22.66)	4.31 (24.47)

*Effective thermal resistance calculated in accordance with the procedure outlined in Appendix A-9.36.2.4(1) of the 2015 NBCC.
**Calculations exclude the contribution of the vented air space created by vertical strapping and any material outboard of the vented air space.
***Calculations made with vinyl siding wall cladding, and including the contribution of the vented air space created by vertical strapping. Addition of the values of the vented air space and the exterior cladding is subject to the Province or the Authority Having Jurisdiction.

BASF

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HP+™ Wall XR Series

Neopor® Thickness mm (in)	WALLTITE® CM01 Nominal Thickness mm (in)	Effective RSI value*, (m²·K)/W (Effective R-value*, (hr·ft²·°F)/BTU)
38 (1.5)	64 (2.5)	3.75 (21.3)
38 (1.5)	89 (3.5)	4.19 (23.8)
51 (2)	64 (2.5)	4.24 (24.1)
51 (2)	89 (3.5)	4.79 (27.2)
76 (3)	64 (2.5)	4.97 (28.2)
76 (3)	89 (3.5)	5.47 (31.1)
102 (4)	64 (2.5)	5.86 (33.3)

*Effective thermal resistance obtained from laboratory tests performed in accordance with ASTM C1363 “Standard Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus”, as per Clause 9.36.2.2(4)b) in the 2015 NBCC. Neopor® sheets are the outermost material in the assemblies tested.