



# City of Yellowknife Residential Building Energy Efficiency Form

Please complete the Permit number:

PR- -

For **INFORMATION**, please call: **(867)920-5600**

Email: [BuildingServices@yellowknife.ca](mailto:BuildingServices@yellowknife.ca)  
Mail: PO Box 580, Yellowknife, NT X1A 2N4

<b>Project Address:</b>		
Applicant:	Phone: (     )     -	Email:

<input type="checkbox"/> Part 9 Residential Building	<input type="checkbox"/> Prescriptive Path (Complete Table 1 )	<input type="checkbox"/> Performance Path Attach Energy Analysis
<input type="checkbox"/> Part 3 Residential Building	<input type="checkbox"/> Prescriptive Path (Complete Table 3 )	<input type="checkbox"/> Performance Path Attach Energy Analysis

<b>Table 1 – Prescriptive Path for Part 9 Residential Building – (6.1.2 of Building By-law)</b>			
Assembly	Minimum Required Thermal Resistance		Proposed Thermal Resistance/Type of Insulation/FDWR
	Effective RSI [m <sup>2</sup> K/W]	Effective R-value [ft <sup>2</sup> °F/btu]	
Walls (above grade)	5.28	30	
Walls (below grade)	4.96	28	
Attic ceilings/roof	10.6	60	
Cathedral ceilings/roof	7.0	40	
Slab on ground	5.64	32	
Exposed floor	7.0	40	
Floors above unheated space	6.28	35	
Insulation skirt extending out horizontally (1m out)	5.64	32	
	Effective USI [W/m <sup>2</sup> ·K]	Effective U-value [btu/ft <sup>2</sup> ·°F]	
Doors excluding glazing	0.91	0.16	
Windows and glazed doors	1.00	0.18	
Maximum fenestration and door-to-wall ratio (FDWR)	15%		

<b>Table 3 – Prescriptive Path for Part 3 Residential Building – (6.2.1.4 of Building By-law)</b>			
Assembly	Minimum Required Thermal Resistance		Proposed Thermal Resistance/Type of Insulation/FDWR
	Effective RSI [m <sup>2</sup> K/W]	Effective R-value [ft <sup>2</sup> °F/btu]	
Walls (above grade)	6.82	38	
Walls (below grade)	5.95	34	
Ceilings/roof	8.80	50	
Slab on ground	3.30	18	
Exposed floor	8.75	50	
Floors above unheated space	7.00	40	
Perimeter insulation (1.0 m out)	3.30	18	
	Effective USI [W/m <sup>2</sup> K]	Effective U-value [btu/ft <sup>2</sup> °F]	
Doors excluding glazing	1.4	0.25	
Windows and glazed doors	1.4	0.25	
Maximum fenestration and door-to-wall ratio (FDWR)	17%		

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Applicant Signature

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Date