

## Thermal Characteristics of Building Assemblies

### Heat Recovery Ventilation Unit

<b>Effective RSI Values with/without HRV</b>	Zone 6 4000-4999 <b>with/without</b>	Zone 7A 5000-5999 <b>with/without</b>	Zone 7B 6000-6999 <b>with/without</b>	Zone 8 ≥ 7000 <b>with/without</b>
Ceilings below attics	<b>8.67/8.67</b>	<b>8.67/10.43</b>	<b>10.43/10.43</b>	<b>10.43/10.43</b>
Vaulted Ceilings or flat roofs	<b>4.67/4.67</b>	<b>5.02/5.02</b>	<b>5.02/5.02</b>	<b>5.02/5.02</b>
Walls above grade	<b>2.97/3.08</b>	<b>2.97/3.08</b>	<b>3.08/3.85</b>	<b>3.08/3.85</b>
Walls below grade	<b>2.98/2.98</b>	<b>2.98/3.46</b>	<b>2.98/3.46</b>	<b>2.98/3.46</b>
Floors over unconditioned space	<b>4.67/4.67</b>	<b>5.02/5.02</b>	<b>5.02/5.02</b>	<b>5.02/5.02</b>
Attached Garage walls	<b>2.97/3.08</b>	<b>2.97/3.08</b>	<b>3.08/3.85</b>	<b>3.08/3.85</b>
* Heated concrete floors	<b>2.32/2.32</b>	<b>2.84/2.84</b>	<b>2.84/2.84</b>	<b>2.84/2.84</b>

For R values multiply RSI value by 5.678

\* Basement floors below frost line can be uninsulated unless there is Hydronic heating installed

### Doors and Windows

<b>Values for windows and doors</b>	Zone 6 4000-4999	Zone 7A 5000-5999	Zone 7B 6000-6999	Zone 8 ≥ 7000
Windows and door Max U-Value	1.60	1.60	1.40	1.40
Window and door Min Energy rating	25	25	29	29
Skylights u-value	2.70	2.40	2.40	2.40