

AMENDATORY SECTION (Amending WSR 24-16-145, filed 8/7/24, effective 9/7/24)

WAC 51-11C-40620 Section C406.2—Additional energy efficiency credit measures. C406.2 Additional energy efficiency credit measures.

~~((Each)) Energy efficiency credit measures used to meet credit requirements for the project shall ~~((include efficiency that is greater than the energy efficiency required for the building type and configuration requirements in Sections C402 through C405. Measures installed in the project that meet the requirements in Sections C406.2.1 through C406.2.14 shall achieve the credits listed for the measure and occupancy group in Table C406.2(1) or Table C406.2(2) or where calculations required by Sections C406.2.1 through C406.2.14 create or modify the table credits, the credits achieved shall be based upon the section calculations. Projects that chose to comply with the fossil fuel pathway in Section C401.3 shall use Table C406.2(2) to achieve credits))~~ exceed the energy efficiency required in Sections C402 through C405. The section references in Tables C406.2(1) through C406.2(9) detail the requirements that must be met to obtain all or part of the credit measure available for the noted~~

occupancy group and climate zone. Linear interpolation is allowed where multiple efficiency targets are provided.

~~((For mixed fuel space heating systems, the number of space heating energy efficiency credits available for measures with a prorating flag "Heat" are calculated using the following equation:~~

$$C_{SH} = CHP_{SH} \times B/C + CFF_{SH} \times (1 - B/C)$$

~~Where:~~

- ~~C_{SH} = Blended credits for mixed fuel systems.~~
- ~~CHP_{SH} = Credits available in Table C406.2(1).~~
- ~~CFF_{SH} = Credits available in Table C406.2(2).~~
- ~~B = Installed space heating capacity in kBTU/h of space heating appliances that comply with any of the exceptions to Section C403.1.4.~~
- ~~C = Total installed space heating capacity in kBTU/h of all space heating appliances.~~

~~For mixed fuel service water heating systems, the number of service water heating energy efficiency credits available for measures with a prorating flag "SWH" are calculated using the following equation:~~

$$C_{WH} = CHP_{WH} \times B/C + CFF_{WH} \times (1 - B/C)$$

~~Where:~~

- ~~C_{WH} = Blended credits for mixed fuel systems.~~
- ~~CHP_{WH} = Credits available in Table C406.2(1).~~
- ~~CFF_{WH} = Credits available in Table C406.2(2).~~
- ~~B = Installed service water heating capacity in kBTU/h of service water~~

heating appliances that comply with any of the exceptions to Section C404.2.1.

C = Total installed service water heating capacity in kBTU/h of all service water heating appliances.

~~Table C406.2(1)~~

~~Efficiency Measure Credits~~

~~Table C406.2(2)~~

~~Efficiency Measure Credits for use with~~

~~Fossil Fuel Compliance Path~~

Table C406.2(1)

Lighting Efficiency Credit Measures

ID	Credit Measure	Section Reference	Occupancy Group (Climate Zone 4C / 5B)								
			<u>R-1</u> <u>R-4</u> <u>I-1</u>	<u>I-2</u>	<u>R-2</u>	<u>B</u>	<u>A-2</u>	<u>M</u>	<u>E</u>	<u>S-1</u> <u>S-2</u>	<u>All</u> <u>Other</u>
<u>L0</u> <u>1</u>	5% reduced lighting power	C406.2.3. <u>1</u>	<u>3/3</u>	<u>6/6</u>	<u>1/1</u>	<u>8/7</u>	<u>0/0</u>	<u>8/6</u>	<u>10/8</u>	<u>12/5</u>	<u>6/5</u>
<u>L0</u> <u>2</u>	10% reduced lighting power		<u>6/6</u>	<u>11/11</u>	<u>2/2</u>	<u>17/13</u>	<u>1/1</u>	<u>16/11</u>	<u>21/16</u>	<u>22/9</u>	<u>11/10</u>
<u>L0</u> <u>3</u>	15% reduced lighting power		<u>±</u>	<u>±</u>	<u>±</u>	<u>±</u>	<u>±</u>	<u>±</u>	<u>±</u>	<u>±</u>	<u>±</u>
<u>L0</u> <u>4</u>	20% reduced lighting power		<u>13/12</u>	<u>22/22</u>	<u>3/4</u>	<u>33/26</u>	<u>2/1</u>	<u>32/22</u>	<u>41/32</u>	<u>47/17</u>	<u>22/20</u>
<u>L0</u> <u>5</u>	25% reduced lighting power		<u>±</u>	<u>±</u>	<u>±</u>	<u>±</u>	<u>±</u>	<u>±</u>	<u>±</u>	<u>±</u>	<u>±</u>
<u>L0</u> <u>6</u>	30% reduced lighting power		<u>19/18</u>	<u>33/33</u>	<u>5/6</u>	<u>50/39</u>	<u>3/2</u>	<u>47/33</u>	<u>61/46</u>	<u>70/26</u>	<u>33/30</u>

ID	Credit Measure	Section Reference	Occupancy Group (Climate Zone 4C / 5B)								
			<u>R-1</u> <u>R-4</u> <u>I-1</u>	<u>I-2</u>	<u>R-2</u>	<u>B</u>	<u>A-2</u>	<u>M</u>	<u>E</u>	<u>S-1</u> <u>S-2</u>	<u>All</u> <u>Other</u>
L07	Group R lamp efficacy	C406.2.3.2	2/2	N/A	1/1	N/A	N/A	N/A	N/A	N/A	N/A
L08	Group R-2 lighting controls	C406.2.4.1	N/A	N/A	1/1	N/A	N/A	N/A	N/A	N/A	N/A
L09	Enhanced lighting controls	C406.2.4.2	2/2	4/4	1/1	6/5	0/0	6/5	8/6	9/4	4/4
Lighting adjustment factor (LTG _{adj}) for use with Table C406.2(4)		C406.2.2.2 & 3	0.0073 / 0.0047	0.0014 / 0.0011	0.0050 / 0.0049	0.0049 / 0.0033	0.0100 / 0.0090	0.0040 / 0.0031	0.0035 / 0.0036	0.0023 / 0.0019	0.0043 / 0.0031

Table C406.2 (2)

Envelope Efficiency Credit Measures

ID	Credit Measure	Section Reference	Occupancy Group (Climate Zone 4C / 5B)								
			<u>R-1</u> <u>R-4</u> <u>I-1</u>	<u>I-2</u>	<u>R-2</u>	<u>B</u>	<u>A-2</u>	<u>M</u>	<u>E</u>	<u>S-1</u> <u>S-2</u>	<u>All</u> <u>Other</u>
E01	Total UA Improved 5%	C406.2.12	2/4	2/4	6/11	2/20	3/3	20/26	3/10	24/26	9/16
E02	Total UA Improved 10%		3/7	4/7	12/22	4/38	6/7	39/52	6/19	48/52	17/32
E03	Total UA Improved 15%		±	±	±	±	±	±	±	±	±
E04	Total UA Improved 20%		6/14	8/14	21/42	4/71	11/13	76/102	9/34	89/104	31/61
E05	Total UA Improved 25%		±	±	±	±	±	±	±	±	±
E06	Total UA Improved 30%		8/21	10/20	28/62	1/97	16/20	107/151	9/45	134/157	43/89
E07	Total UA Improved 35%		±	±	±	±	±	±	±	±	±

ID	Credit Measure	Section Reference	Occupancy Group (Climate Zone 4C / 5B)								
			<u>R-1</u> <u>R-4</u> <u>I-1</u>	<u>I-2</u>	<u>R-2</u>	<u>B</u>	<u>A-2</u>	<u>M</u>	<u>E</u>	<u>S-1</u> <u>S-2</u>	<u>All</u> <u>Other</u>
<u>E08</u>	Total UA Improved 40%		<u>10/26</u>	<u>13/26</u>	<u>30/81</u>	<u>-5/112</u>	<u>22/27</u>	<u>133/195</u>	<u>5/50</u>	<u>176/212</u>	<u>52/115</u>
UA adjustment factor (UA _{adj}) for use with Table C406.2(4) items E01 through E08		<u>C406.2.2.2 & 3</u>	<u>0/0.0149</u>	<u>0.0100</u> <u>∟</u> <u>0.0070</u>	<u>0.0216</u> <u>∟</u> <u>0.0079</u>	<u>0.0105</u> <u>∟</u> <u>0.0105</u>	<u>0.0062</u> <u>∟</u> <u>0.0037</u>	<u>0.0052/0.0030</u>	<u>0.0036/0.0156</u>	<u>0.0027/0.0014</u>	<u>0.0142</u> <u>∟</u> <u>0.0082</u>
<u>E09</u>	Air Leakage Not Exceed 90% Max	<u>C406.2.13</u>	<u>0/0</u>	<u>0/0</u>	<u>1/2</u>	<u>0/1</u>	<u>0/0</u>	<u>1/2</u>	<u>0/0</u>	<u>3/3</u>	<u>1/1</u>
<u>E10</u>	Air Leakage Not Exceed 80% Max		<u>0/1</u>	<u>0/1</u>	<u>2/3</u>	<u>0/2</u>	<u>0/0</u>	<u>2/3</u>	<u>0/1</u>	<u>6/6</u>	<u>2/3</u>
<u>E11</u>	Air Leakage Not Exceed 70% Max		<u>∟</u>	<u>∟</u>	<u>∟</u>	<u>∟</u>	<u>∟</u>	<u>∟</u>	<u>∟</u>	<u>∟</u>	<u>∟</u>
<u>E12</u>	Air Leakage Not Exceed 60% Max		<u>1/2</u>	<u>1/1</u>	<u>4/7</u>	<u>0/5</u>	<u>0/0</u>	<u>4/5</u>	<u>0/2</u>	<u>13/12</u>	<u>4/6</u>
<u>E13</u>	Air Leakage Not Exceed 50% Max		<u>∟</u>	<u>∟</u>	<u>∟</u>	<u>∟</u>	<u>∟</u>	<u>∟</u>	<u>∟</u>	<u>∟</u>	<u>∟</u>
<u>E14</u>	Air Leakage Not Exceed 40% Max		<u>1/2</u>	<u>1/2</u>	<u>5/10</u>	<u>1/7</u>	<u>0/1</u>	<u>6/8</u>	<u>1/3</u>	<u>17/18</u>	<u>6/9</u>
<u>E15</u>	Air Leakage Not Exceed		<u>∟</u>	<u>∟</u>	<u>∟</u>	<u>∟</u>	<u>∟</u>	<u>∟</u>	<u>∟</u>	<u>∟</u>	<u>∟</u>

ID	Credit Measure	Section Reference	Occupancy Group (Climate Zone 4C / 5B)								
			<u>R-1</u> <u>R-4</u> <u>I-1</u>	<u>I-2</u>	<u>R-2</u>	<u>B</u>	<u>A-2</u>	<u>M</u>	<u>E</u>	<u>S-1</u> <u>S-2</u>	<u>All</u> <u>Other</u>
	30% Max										
<u>E1</u> <u>6</u>	<u>Air</u> <u>Leakage</u> <u>Not</u> <u>Exceed</u> <u>20%</u> <u>Max</u>		<u>1/3</u>	<u>1/2</u>	<u>7/14</u>	<u>1/9</u>	<u>1/1</u>	<u>8/11</u>	<u>1/4</u>	<u>23/24</u>	<u>8/12</u>
	<u>Air leakage</u> <u>adjustment</u> <u>factor</u> <u>(LEAK_{adj})</u> for use with Table C406.2(4) items <u>E09</u> through <u>E16</u>	<u>C406.2.2.</u> <u>2 & 3</u>	<u>0.0477</u> / <u>0.0162</u>	<u>0.0075</u> / <u>0.0066</u>	<u>0.0235</u> / <u>0.0083</u>	<u>0.0022</u> / <u>0.0107</u>	<u>0.0062</u> / <u>0.0038</u>	<u>0.0060/</u> <u>0.0032</u>	<u>0.0039/</u> <u>0.0016</u> <u>8</u>	<u>0.0028/</u> <u>0.0015</u>	<u>0.0140</u> / <u>0.0087</u>
<u>E1</u> <u>7</u>	<u>Thermal</u> <u>imaging</u>	<u>C406.2.20</u>	/	/	/	/	/	/	/	/	/

Table C406.2 (3)

Ventilation Systems and HVAC Controls Efficiency Credit Measures

ID	Credit Measure	Section Reference	Occupancy Group (Climate Zone 4C / 5B)								
			<u>R-1</u> <u>R-4</u> <u>I-1</u>	<u>I-2</u>	<u>R-2</u>	<u>B</u>	<u>A-2</u>	<u>M</u>	<u>E</u>	<u>S-1</u> <u>S-2</u>	<u>All</u> <u>Other</u>
<u>C01</u>	<u>Group R-2</u> <u>HVAC control</u>	<u>C406.2.1</u>	<u>N/A</u>	<u>N/A</u>	<u>19/27</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>	<u>N/A</u>
<u>C02</u>	<u>Improve fan</u> <u>efficiency 5%</u>	<u>C406.2.2.1</u>	<u>3/3</u>	<u>5/6</u>	<u>3/3</u>	<u>3/3</u>	<u>1/1</u>	<u>3/2</u>	<u>5/4</u>	<u>1/0</u>	<u>3/2</u>
	<u>Improve fan</u> <u>efficiency 10%</u>		<u>6/6</u>	<u>10/11</u>	<u>6/5</u>	<u>7/6</u>	<u>2/1</u>	<u>6/5</u>	<u>9/7</u>	<u>1/0</u>	<u>6/5</u>
	<u>Improve Fan</u> <u>Efficiency 20%</u>		<u>21/11</u>	<u>21/22</u>	<u>12/10</u>	<u>14/12</u>	<u>3/2</u>	<u>13/9</u>	<u>18/14</u>	<u>3/1</u>	<u>12/9</u>
<u>C03</u>	<u>High</u> <u>performance</u> <u>DOAS</u>	<u>C406.2.2.6</u>	<u>0/0</u>	<u>1/1</u>	<u>9/19</u>	<u>4/5</u>	<u>0/0</u>	<u>1/18</u>	<u>7/22</u>	<u>3/7</u>	<u>6/12</u>
<u>C04</u>	<u>Fault detection</u> <u>& diagnostics</u> <u>(FDD)</u>	<u>C406.2.2.7</u>	/	/	/	/	/	/	/	/	/
<u>C05</u>	<u>Peak heating</u> <u>and cooling</u> <u>loads</u>	<u>C406.2.22</u>	/	/	/	/	/	/	/	/	/
<u>CO6</u>	<u>Add DOAS if</u> <u>not otherwise</u> <u>required</u>	<u>TBD</u>	<u>-7/</u> <u>31</u>	<u>33/33</u>	<u>0/0</u>	<u>0/0</u>	<u>0/0</u>	<u>0/0</u>	<u>0/0</u>	<u>20/22</u>	<u>5/11</u>
<u>CO7</u>	<u>Add Air</u> <u>Economizer if</u>	<u>TBD</u>	<u>32/21</u>	<u>51/34</u>	<u>N/A</u>	<u>41/21</u>	<u>N/A</u>	<u>3/2</u>	<u>48/36</u>	<u>0/0</u>	<u>15/15</u>

ID	Credit Measure	Section Reference	Occupancy Group (Climate Zone 4C / 5B)								
			<u>R-1</u> <u>R-4</u> <u>I-1</u>	<u>I-2</u>	<u>R-2</u>	<u>B</u>	<u>A-2</u>	<u>M</u>	<u>E</u>	<u>S-1</u> <u>S-2</u>	<u>All</u> <u>Other</u>
	<u>not otherwise required</u>										

Table C406.2 (4)

Space Heating Efficiency Credit Measures

ID	Credit Measure	Section Reference	Occupancy Group (Climate Zone 4C / 5B)								
			<u>R-1</u> <u>R-4</u> <u>I-1</u>	<u>I-2</u>	<u>R-2</u>	<u>B</u>	<u>A-2</u>	<u>M</u>	<u>E</u>	<u>S-1</u> <u>S-2</u>	<u>All</u> <u>Other</u>
<u>H0</u> <u>1</u>	<u>Improved HVAC TSPR^a 5%</u>	<u>C406.2.2.1</u>	<u>0/0</u>	<u>0/0</u>	<u>50/85</u>	<u>-17/0</u>	<u>0/0</u>	<u>155/217</u>	<u>67/88</u>	<u>0/0</u>	<u>32/53</u>
	<u>Improved HVAC TSPR^a 10%</u>		<u>0/0</u>	<u>0/0</u>	<u>55/92</u>	<u>-8/11</u>	<u>0/0</u>	<u>164/229</u>	<u>75/99</u>	<u>0/0</u>	<u>37/59</u>
	<u>Improved HVAC TSPR^a 20%</u>		<u>0/0</u>	<u>0/0</u>	<u>65/106</u>	<u>10/34</u>	<u>0/0</u>	<u>182/253</u>	<u>90/119</u>	<u>0/0</u>	<u>47/70</u>
	<u>Improved HVAC TSPR^a 30%</u>		<u>0/0</u>	<u>0/0</u>	<u>75/121</u>	<u>29/56</u>	<u>0/0</u>	<u>200/276</u>	<u>106/139</u>	<u>0/0</u>	<u>56/81</u>
<u>H0</u> <u>2</u>	<u>No space heating</u>	<u>C406.2.2.3</u>	<u>3/6†</u>	<u>14/16†</u>	<u>6/12†</u>	<u>2/6†</u>	<u>15/25†</u>	<u>18/30†</u>	<u>5/12†</u>	<u>34/64†</u>	<u>11/28†</u>
<u>H0</u> <u>3</u>	<u>C403.1.4 Primary space heating exceptions</u>	<u>C406.2.2.3</u>	<u>Same as min. efficiency air source heat pump (5a)</u>								
<u>H0</u> <u>4</u>	<u>Fossil fuel boiler or furnace Min Eff.</u>		<u>0/0</u>	<u>0/0</u>	<u>0/0</u>	<u>0/0</u>	<u>0/0</u>	<u>0/0</u>	<u>0/0</u>	<u>0/0</u>	<u>0/0</u>
<u>H0</u> <u>5</u>	<u>Fossil fuel boiler or furnace Imp. 5%</u>	<u>C406.2.2.3</u>	<u>2/3</u>	<u>8/8</u>	<u>3/6</u>	<u>1/3</u>	<u>8/13</u>	<u>10/16</u>	<u>3/7</u>	<u>18/33</u>	<u>6/15</u>
<u>H0</u> <u>6</u>	<u>Fossil fuel boiler or furnace Imp. 10%</u>		<u>3/6</u>	<u>14/16</u>	<u>6/12</u>	<u>2/6</u>	<u>15/25</u>	<u>18/30</u>	<u>5/12</u>	<u>34/64</u>	<u>11/28</u>
<u>H0</u> <u>7</u>	<u>Fossil fuel boiler or</u>		<u>4/9</u>	<u>21/23</u>	<u>8/18</u>	<u>3/9</u>	<u>22/36</u>	<u>26/43</u>	<u>8/18</u>	<u>48/91</u>	<u>16/41</u>

ID	Credit Measure	Section Reference	Occupancy Group (Climate Zone 4C / 5B)								S-1 S-2	All Other
			R-1 R-4 I-1	I-2	R-2	B	A-2	M	E			
	furnace Imp. 15%											
H0 8	Fossil fuel boiler or furnace Imp. 20%		<u>5/12</u>	<u>26/29</u>	<u>10/23</u>	<u>4/12</u>	<u>28/46</u>	<u>33/55</u>	<u>10/23</u>	<u>62/117</u>	<u>20/52</u>	
H0 9	Fossil fuel boiler or furnace Imp. 25%		/	/	/	/	/	/	/	/	/	
H1 0	Air source heat pump Min Eff.		<u>19/3</u> <u>1</u>	<u>123/12</u> <u>6</u>	<u>40/73</u>	<u>14/3</u> <u>5</u>	<u>122/17</u> <u>0</u>	<u>145/20</u> <u>9</u>	<u>36/76</u>	<u>208/29</u> <u>7</u>	<u>74/15</u> <u>0</u>	
H11	Air source heat pump Imp. 10%		/	/	/	/	/	/	/	/	/	
H1 2	Air source heat pump Imp. 20%		<u>21/3</u> <u>6</u>	<u>130/13</u> <u>5</u>	<u>40/73</u>	<u>15/3</u> <u>7</u>	<u>126/17</u> <u>6</u>	<u>151/21</u> <u>9</u>	<u>37/81</u>	<u>214/30</u> <u>5</u>	<u>76/15</u> <u>6</u>	
H1 3	Air source heat pump Imp. 30%		/	/	/	/	/	/	/	/	/	
H1 4	Air source heat pump Imp. 40%		<u>23/4</u> <u>0</u>	<u>135/14</u> <u>2</u>	<u>42/79</u>	<u>15/4</u> <u>0</u>	<u>130/18</u> <u>4</u>	<u>156/22</u> <u>9</u>	<u>39/86</u>	<u>219/31</u> <u>2</u>	<u>78/16</u> <u>2</u>	
H1 5	Air source heat pump Imp. 50%		/	/	/	/	/	/	/	/	/	
H1 6	Air source heat pump Imp. 60%		<u>24/4</u> <u>2</u>	<u>138/14</u> <u>6</u>	<u>44/83</u>	<u>16/4</u> <u>2</u>	<u>133/19</u> <u>0</u>	<u>160/23</u> <u>6</u>	<u>40/89</u>	<u>223/31</u> <u>7</u>	<u>80/16</u> <u>6</u>	
H1 7	Air source heat pump Imp. 70%		/	/	/	/	/	/	/	/	/	
H1 8	Air source heat pump Imp. 80%		/	/	/	/	/	/	/	/	/	
H1 9	Air source heat pump Imp. 90%		/	/	/	/	/	/	/	/	/	
H2 0	Ground source heat pump Min Eff.		<u>24/5</u> <u>5</u>	<u>150/15</u> <u>4</u>	<u>48/10</u> <u>5</u>	<u>19/5</u> <u>7</u>	<u>140/22</u> <u>6</u>	<u>157/25</u> <u>4</u>	<u>41/103</u>	<u>226/33</u> <u>7</u>	<u>84/18</u> <u>3</u>	
H2 1	Ground source heat pump Imp. 10%		/	/	/	/	/	/	/	/	/	

ID	Credit Measure	Section Reference	Occupancy Group (Climate Zone 4C / 5B)								
			<u>R-1</u> <u>R-4</u> <u>I-1</u>	<u>I-2</u>	<u>R-2</u>	<u>B</u>	<u>A-2</u>	<u>M</u>	<u>E</u>	<u>S-1</u> <u>S-2</u>	<u>All</u> <u>Other</u>
<u>H2</u> <u>2</u>	Ground source heat pump Imp. 20%		<u>26/5</u> <u>7</u>	<u>151/15</u> <u>7</u>	<u>50/11</u> <u>0</u>	<u>20/5</u> <u>9</u>	<u>144/23</u> <u>1</u>	<u>162/26</u> <u>3</u>	<u>42/106</u>	<u>231/34</u> <u>2</u>	<u>86/18</u> <u>8</u>
<u>H2</u> <u>3</u>	Ground source heat pump Imp. 30%		±	±	±	±	±	±	±	±	±
<u>H2</u> <u>4</u>	Ground source heat pump Imp. 40%		<u>27/5</u> <u>9</u>	<u>152/15</u> <u>9</u>	<u>52/11</u> <u>3</u>	<u>20/6</u> <u>1</u>	<u>146/23</u> <u>5</u>	<u>166/26</u> <u>9</u>	<u>43/109</u>	<u>235/34</u> <u>7</u>	<u>88/19</u> <u>1</u>
<u>H2</u> <u>5</u>	Ground source heat pump Imp. 50%		±	±	±	±	±	±	±	±	±
<u>H2</u> <u>6</u>	Ground source heat pump Imp. 60%		<u>27/6</u> <u>1</u>	<u>153/16</u> <u>1</u>	<u>53/11</u> <u>6</u>	<u>21/6</u> <u>2</u>	<u>148/23</u> <u>8</u>	<u>169/27</u> <u>4</u>	<u>44/111</u>	<u>238/35</u> <u>0</u>	<u>89/19</u> <u>4</u>
<u>H2</u> <u>7</u>	Ground source heat pump Imp. 70%		±	±	±	±	±	±	±	±	±
<u>H2</u> <u>8</u>	Ground source heat pump Imp. 80%		∕	∕	∕	∕	∕	∕	∕	∕	∕
<u>H2</u> <u>9</u>	Ground source heat pump Imp. 90%		∕	∕	∕	∕	∕	∕	∕	∕	∕
<u>H3</u> <u>0</u>	Gas heat pump Min Eff.		<u>C406.2.2.</u> <u>3</u>	<u>14/2</u> <u>8</u>	<u>73/73</u>	<u>19/36</u>	<u>9/23</u>	<u>100/15</u> <u>5</u>	<u>91/137</u>	<u>24/53</u>	<u>100/10</u> <u>7</u>
<u>H3</u> <u>1</u>	Gas heat pump Imp. 10%	∕		∕	∕	∕	∕	∕	∕	∕	∕
<u>H3</u> <u>2</u>	Gas heat pump Imp. 20%	∕		∕	∕	∕	∕	∕	∕	∕	∕
<u>H3</u> <u>3</u>	Gas heat pump Imp. 30%	∕		∕	∕	∕	∕	∕	∕	∕	∕
<u>H3</u> <u>4</u>	Gas heat pump Imp. 40%	∕		∕	∕	∕	∕	∕	∕	∕	∕

ID	Credit Measure	Section Reference	Occupancy Group (Climate Zone 4C / 5B)								
			R-1 R-4 I-1	I-2	R-2	B	A-2	M	E	S-1 S-2	All Other
H3 5	Gas heat pump Imp. 50%		/	/	/	/	/	/	/	/	/
H3 6	Gas heat pump Imp. 60%		/	/	/	/	/	/	/	/	/
H3 7	Gas heat pump Imp. 70%		/	/	/	/	/	/	/	/	/
H3 8	Gas heat pump Imp. 80%		/	/	/	/	/	/	/	/	/
H3 9	Gas heat pump Imp. 90%		/	/	/	/	/	/	/	/	/
H4 0	Water source heat pump heat Min Eff. (w/ gas boiler)		<u>12/17</u>	<u>148/134</u>	<u>1/1</u>	<u>12/21</u>	<u>29/46</u>	<u>37/59</u>	<u>28/52</u>	<u>83/177</u>	<u>28/84</u>
H4 1	Water source heat pump heat Imp. 10%		±	±	±	±	±	±	±	±	±
H4 2	Water source heat pump heat Imp. 20% (w/ gas boiler)		<u>14/21</u>	<u>150/137</u>	<u>5/10</u>	<u>13/25</u>	<u>36/59</u>	<u>46/74</u>	<u>30/57</u>	<u>93/189</u>	<u>33/922</u>
H4 3	Water source heat pump heat Imp. 30%		±	±	±	±	±	±	±	±	±
H4 4	Water source heat pump heat Imp. 40% (w/ gas boiler)		<u>16/25</u>	<u>151/140</u>	<u>7/16</u>	<u>14/27</u>	<u>41/68</u>	<u>52/86</u>	<u>31/62</u>	<u>100/198</u>	<u>36/99</u>
H4 5	Water source heat pump	C406.2.2. 3	±	±	±	±	±	±	±	±	±

ID	Credit Measure	Section Reference	Occupancy Group (Climate Zone 4C / 5B)								
			<u>R-1</u> <u>R-4</u> <u>I-1</u>	<u>I-2</u>	<u>R-2</u>	<u>B</u>	<u>A-2</u>	<u>M</u>	<u>E</u>	<u>S-1</u> <u>S-2</u>	<u>All</u> <u>Other</u>
	<u>heat Imp.</u> <u>50%</u>										
<u>H4</u> <u>6</u>	<u>Water</u> <u>source</u> <u>heat pump</u> <u>heat Imp.</u> <u>60% (w/</u> <u>gas</u> <u>boiler)</u>		<u>17 /</u> <u>27</u>	<u>151 /</u> <u>142</u>	<u>9 / 20</u>	<u>14 /</u> <u>29</u>	<u>45 / 75</u>	<u>57 / 94</u>	<u>32 / 65</u>	<u>105 /</u> <u>205</u>	<u>38 /</u> <u>103</u>
<u>H4</u> <u>7</u>	<u>Water</u> <u>source</u> <u>heat pump</u> <u>heat Imp.</u> <u>70%</u>		<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
<u>H4</u> <u>8</u>	<u>Water</u> <u>source</u> <u>heat pump</u> <u>heat Imp.</u> <u>80%</u>		<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
<u>H4</u> <u>9</u>	<u>Water</u> <u>source</u> <u>heat pump</u> <u>heat Imp.</u> <u>90%</u> <u>Water</u> <u>source</u> <u>heat pump</u> <u>min</u> <u>efficiency</u> <u>(w/</u> <u>AWHP)</u> <u>Water</u> <u>source</u> <u>heat pump</u> <u>Imp 20%</u> <u>(w/</u> <u>AWHP)</u> <u>Water</u> <u>source</u> <u>heat pump</u> <u>Imp 40%</u> <u>(w/</u> <u>AWHP)</u> <u>Water</u> <u>source</u> <u>heat pump</u> <u>Imp 60%</u> <u>(w/</u> <u>AWHP)</u>		<u>21 /</u> <u>43</u>	<u>150 /</u> <u>150</u>	<u>40 /</u> <u>81</u>	<u>18 /</u> <u>48</u>	<u>120 /</u> <u>185</u>	<u>137 /</u> <u>213</u>	<u>39 / 90</u>	<u>201 /</u> <u>300</u>	<u>74 /</u> <u>160</u>
			<u>23 /</u> <u>47</u>	<u>152 /</u> <u>153</u>	<u>44 /</u> <u>90</u>	<u>19 /</u> <u>52</u>	<u>127 /</u> <u>198</u>	<u>146 /</u> <u>228</u>	<u>41 / 95</u>	<u>211 /</u> <u>312</u>	<u>79 /</u> <u>168</u>
			<u>25 /</u> <u>51</u>	<u>153 /</u> <u>156</u>	<u>46 /</u> <u>96</u>	<u>20 /</u> <u>54</u>	<u>132 /</u> <u>207</u>	<u>152 /</u> <u>240</u>	<u>42 /</u> <u>100</u>	<u>218 /</u> <u>321</u>	<u>81 /</u> <u>175</u>
			<u>26 /</u> <u>53</u>	<u>153 /</u> <u>158</u>	<u>48 /</u> <u>100</u>	<u>20 /</u> <u>56</u>	<u>136 /</u> <u>214</u>	<u>157 /</u> <u>248</u>	<u>43 /</u> <u>103</u>	<u>223 /</u> <u>328</u>	<u>84 /</u> <u>179</u>

Table C406.2(5)

Space Cooling Efficiency Credit Measures

ID	Credit Measure	Section Reference	Occupancy Group (Climate Zone 4C / 5B)								
			R-1 R-4 I-1	I-2	R-2	B	A-2	M	E	S-1 S-2	All Other
H50	No space cooling	C406.2.2.2	<u>9 / 10</u>	<u>1 / 1</u>	<u>10 / 12</u>	<u>28 / 28</u>	<u>3 / 4</u>	<u>13 / 16</u>	<u>21 / 25</u>	<u>0 / 0</u>	<u>12 / 13</u>
H51	Direct expansion Min Eff.	C406.2.2.2	<u>0 / 0</u>	<u>4 / 2</u>	<u>0 / 0</u>	<u>6 / 4</u>	<u>0 / 0</u>	<u>0 / 0</u>	<u>0 / 0</u>	<u>0 / 0</u>	<u>1 / 0</u>
H52	Direct expansion Imp. 25%		<u>9 / 10</u>	<u>15 / 15</u>	<u>10 / 12</u>	<u>28 / 28</u>	<u>3 / 4</u>	<u>13 / 16</u>	<u>21 / 25</u>	<u>0 / 0</u>	<u>12 / 13</u>
H53	Direct expansion Imp. 54%		<u>30 / 33</u>	<u>23 / 22</u>	<u>61 / 72</u>	<u>61 / 59</u>	<u>20 / 21</u>	<u>35 / 39</u>	<u>47 / 49</u>	<u>0 / 0</u>	<u>44 / 34</u>
H54	Direct expansion Imp. 75%		<u>35 / 38</u>	<u>28 / 28</u>	<u>64 / 76</u>	<u>69 / 69</u>	<u>21 / 23</u>	<u>41 / 47</u>	<u>55 / 60</u>	<u>0 / 0</u>	<u>48 / 39</u>
H55	Direct expansion Imp. 80%		<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
H56	Direct expansion Imp. 100%		<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
H57	Direct expansion Imp. 120%		<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
H58	Direct expansion Imp. 140%		<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
H59	Direct expansion Imp. 160%		<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
H60	Direct expansion Imp. 180%		<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>
H61	Air cooled chiller & water-Min Eff.	C406.2.2.2	<u>9 / 9</u>	<u>-5 / -5</u>	<u>-16 / -14</u>	<u>0 / 0</u>	<u>5 / 4</u>	<u>4 / 9</u>	<u>-2 / 6</u>	<u>0 / 0</u>	<u>-7 / 1</u>
H62	Air cooled Chiller & water Imp. 20%		<u>13 / 13</u>	<u>1 / 1</u>	<u>-10 / -7</u>	<u>9 / 10</u>	<u>6 / 6</u>	<u>10 / 17</u>	<u>9 / 19</u>	<u>0 / 0</u>	<u>-1 / 8</u>
H63	Air cooled Chiller & water Imp. 40%		<u>14 / 14</u>	<u>6 / 7</u>	<u>-4 / 0</u>	<u>18 / 19</u>	<u>6 / 7</u>	<u>11 / 18</u>	<u>13 / 23</u>	<u>0 / 0</u>	<u>4 / 11</u>
H64	Air cooled Chiller &		<u>15 / 15</u>	<u>10 / 11</u>	<u>0 / 5</u>	<u>23 / 25</u>	<u>7 / 8</u>	<u>13 / 19</u>	<u>17 / 27</u>	<u>0 / 0</u>	<u>7 / 13</u>

ID	Credit Measure	Section Reference	Occupancy Group (Climate Zone 4C / 5B)								
			<u>R-1</u> <u>R-4</u> <u>I-1</u>	<u>I-2</u>	<u>R-2</u>	<u>B</u>	<u>A-2</u>	<u>M</u>	<u>E</u>	<u>S-1</u> <u>S-2</u>	<u>All Other</u>
	water Imp. 60%										
H65	Chilled water Imp. 80% Water cooled chiller Min Eff.		12 / 17	39 / 37	-11 / -3	18 / 29	6 / 9	8 / 19	-10 / 4	0 / 0	-1 / 9
H66	Chilled water Imp. 100% Water Cooled chiller Imp 20%		14 / 19	44 / 42	-5 / 4	25 / 36	6 / 10	11 / 22	-2 / 12	0 / 0	4 / 13
H67	Water Cooled chiller Imp 40% Chilled water Imp. 120%		15 / 21	47 / 45	-1 / 9	30 / 41	7 / 11	14 / 26	5 / 19	0 / 0	8 / 16
H68	Water Cooled chiller Imp 60% Chilled water Imp. 140%		17 / 22	50 / 48	3 / 13	35 / 46	8 / 11	16 / 28	10 / 24	0 / 0	11 / 19
H69	Chilled water Imp. 160%		/	/	/	/	/	/	/	/	/
H70	Chilled water Imp. 180%		/	/	/	/	/	/	/	/	/
H71	Water source heat pump cool Min Eff.		-46 / -33	-15 / 4	4 / 1	-13 / -10	-1 / 1	-4 / 3	-17 / -10	-3 / -1	-5 / -5
H72	Water source heat pump cool Imp. 20%		-31 / -20	4 / 21	13 / 11	5 / 12	2 / 4	7 / 15	2 / 11	0 / 1	6 / 7
H73	Water source heat pump cool Imp. 40%		-21 / -10	18 / 34	20 / 18	18 / 27	4 / 6	15 / 24	15 / 26	2 / 3	14 / 16
H74	Water source heat pump cool Imp. 60%	<u>C406.2.2.2</u>	-13 / -3	28 / 43	25 / 23	28 / 39	5 / 8	21 / 30	26 / 38	4 / 4	20 / 23
H75	Water source heat pump cool Imp. 80%		/	/	/	/	/	/	/	/	/
H76	Water source heat pump cool Imp. 100%		/	/	/	/	/	/	/	/	/
H77	Water source heat pump cool Imp. 120%		/	/	/	/	/	/	/	/	/

ID	Credit Measure	Section Reference	Occupancy Group (Climate Zone 4C / 5B)								
			<u>R-1</u> <u>R-4</u> <u>I-1</u>	<u>I-2</u>	<u>R-2</u>	<u>B</u>	<u>A-2</u>	<u>M</u>	<u>E</u>	<u>S-1</u> <u>S-2</u>	<u>All</u> <u>Other</u>
H78	Water source heat pump cool Imp. 140%		/	/	/	/	/	/	/	/	/
H79	Water source heat pump cool Imp. 160%		/	/	/	/	/	/	/	/	/
H80	Water source heat pump cool Imp. 180%		/	/	/	/	/	/	/	/	/

Table C406.2 (6)

Service Water Usage Efficiency Credit Measures

ID	Credit Measure	Section Reference	Occupancy Group (Climate Zone 4C / 5B)								
			<u>R-1</u> <u>R-4</u> <u>I-1</u>	<u>I-2</u>	<u>R-2</u>	<u>B</u>	<u>A-2</u>	<u>M</u>	<u>E</u>	<u>S-1</u> <u>S-2</u>	<u>All</u> <u>Other</u>
W01	Shower drain heat recovery	C406.2.6.1	/	/	/	/	/	/	/	/	/
W01 <u>2</u>	Service water heat recovery	C406.2.6.2	36 / 34	0 / 0	110 / 100	17 / 16	0 / 0	24 / 19^a	35 / 32	0 / 0	56 / 26
	Service water recovery adjustment factor (RCVRY _{adj}) for use with Tables C406.2(7) items W01 and W02	C406.2.6.3	<u>0.0033</u> <u>/</u>	<u>0.0159</u> <u>/</u>	<u>0.0024</u> <u>/</u>	<u>0.0135</u> <u>/</u>	<u>0.0052</u> <u>/</u>	<u>0.0152</u> <u>/</u>	<u>0.0075</u> <u>/</u>	<u>0.0187</u> <u>/</u>	<u>0.0087</u> <u>/</u>
			<u>0.0037</u>	<u>0.0190</u>	<u>0.0026</u>	<u>0.0148</u>	<u>0.0059</u>	<u>0.0194</u>	<u>0.0082</u>	<u>0.0391</u>	<u>0.0183</u>
W02	Shower drain heat recovery	C406.2.6.1	12 / 11	NA / NA	37 / 33	NA / NA	NA / NA	NA / NA	8 / 7	0 / NA	17 / 7
W03	Heat trace system	C406.2.7.1	2 / 2	0 / 0	3 / 3	1 / 1	0 / 0	0 / 0^{NA}	5 / 5	7 / 3	3 / 3
W04	Point of use water heater (add footnote b)	C406.2.7.2	0 / 0	0 / 0	0 / 0	32 / 28	0 / 0	58 / 47	88 / 80	46 / 23	24 / 34
W05	Service hot water distribution right sizing	C406.2.8	0 / 0	NA / NA	12 / 10	NA / NA	NA / NA	NA / NA	0 / 0	NA / NA	5 / 1
W06	High performance service hot water temperature maintenanc	C406.2.9	19 / 18	14 / 14	56 / 48	7 / 6	6 / 5	20 / 16	36 / 31	14 / 7	34 / 20

ID	Credit Measure	Section Reference	Occupancy Group (Climate Zone 4C / 5B)								
			R-1 R-4 I-1	I-2	R-2	B	A-2	M	E	S-1 S-2	All Other
	e system (add footnote b)										
W07	High efficiency service hot water circulation system	C406.2.1 0	<u>1 / 1</u> 1	<u>0 / 0</u> 0	<u>2 / 2</u> 2	<u>0 / 0</u> 0	<u>0 / 0</u> 0	<u>0 / 0</u> 0	<u>3 / 3</u> 3	<u>4 / 2</u> 2	<u>2 / 2</u> 2
	Service water use adjustment factor (USE _{adj}) for use with Tables C406.2(7) items W03 through W07	C406.2.6. 3	<u>0.0036</u> <u>0.0037</u> 0.0036	<u>0.0187</u> <u>0.0190</u> 0.0187	<u>0.0025</u> <u>0.0027</u> 0.0025	<u>0.0139</u> <u>0.0152</u> 0.0139	<u>0.0052</u> <u>0.0059</u> 0.0052	<u>0.0174</u> <u>0.0222</u> 0.0174	<u>0.0089</u> <u>0.0097</u> 0.0089	<u>0.0207</u> <u>0.0434</u> 0.0207	<u>0.0096</u> <u>0.0204</u> 0.0096
	Group R low flow showerheads, 1.50 gpm		<u>8 / 7</u>	<u>NA / NA</u>	<u>14 / 13</u>	<u>NA / NA</u>	<u>NA / NA</u>	<u>NA / NA</u>	<u>NA / NA</u>	<u>NA / NA</u>	<u>6 / 2</u>
W08	Group R low flow showerheads, 1.25 gpm	C406.2.1 1	<u>18 / 17</u> 18	<u>NA / NA</u> NA	<u>32 / 29</u> 32	<u>NA / NA</u> NA	<u>NA / NA</u> NA	<u>NA / NA</u> NA	<u>NA / NA</u> NA	<u>NA / NA</u> NA	<u>15 / 5</u> 15

a Service water heat recovery and heat pump water heating are available in Group M only for grocery stores larger than 10,000 ft². Large mixed retail with full grocery and butcher sections shall achieve half the credits. This credit is not available where refrigeration recovery to heat service hot water is used to meet the requirements of Section C403.9.2.3.
Footnote b: these measures do not contribute to capacity weighting in equation 4-19.

Table C406.2 (7)

Service Water Heating Efficiency Credit Measures

ID	Credit Measure	Section Reference	Occupancy Group (Climate Zone 4C / 5B)								
			R-1 R-4 I-1	I-2	R-2	B	A-2	M	E	S-1 S-2	All Other
W09	No service water heating	C406.2.6.3	<u>32 / 31</u> 32	<u>7 / 7</u> 7	<u>42 / 39</u> 42	<u>7 / 6</u> 7	<u>18 / 16</u> 18	<u>10 / 8</u> 10	<u>14 / 13</u> 14	<u>8 / 4</u> 8	<u>24 / 14</u> 24
W10	C404.2.1 Primary service water heating exceptions	C406.2.6.3	Same as min. efficiency heat pump water heating (17a)								
W11	Heat pump water heating Min Eff.	C406.2.6.3	<u>186 / 179</u> 186	<u>36 / 35</u> 36	<u>267 / 243</u> 267	<u>48 / 44</u> 48	<u>129 / 113</u> 129	<u>38 / 30</u> 38	<u>75 / 69</u> 75	<u>32 / 15</u> 32	<u>148 / 75</u> 148
W12	Heat pump water heating Imp. 10%		<u>1</u> 1	<u>1</u> 1	<u>1</u> 1	<u>1</u> 1	<u>1</u> 1	<u>1</u> 1	<u>1</u> 1	<u>1</u> 1	<u>1</u> 1

ID	Credit Measure	Section Reference	Occupancy Group (Climate Zone 4C / 5B)								
			<u>R-1</u> <u>R-4</u> <u>I-1</u>	<u>I-2</u>	<u>R-2</u>	<u>B</u>	<u>A-2</u>	<u>M</u>	<u>E</u>	<u>S-1</u> <u>S-2</u>	<u>All</u> <u>Other</u>
W13	Heat pump water heating Imp. 20%	C406.2.6.4	<u>159 / 81</u>	<u>159 / 81</u>	<u>159 / 81</u>	<u>159 / 81</u>	<u>159 / 81</u>	<u>159 / 81</u>	<u>159 / 81</u>	<u>159 / 81</u>	
W14	Heat pump water heating Imp. 30%		<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	
W15	Heat pump water heating Imp. 40%		<u>208 / 202</u>	<u>40 / 39</u>	<u>303 / 277</u>	<u>53 / 48</u>	<u>147 / 129</u>	<u>40 / 32</u>	<u>83 / 77</u>	<u>33 / 16</u>	<u>167 / 84</u>
W16	Heat pump water heating Imp. 50%		<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	
W17	Heat pump water heating Imp. 60%		<u>215 / 209</u>	<u>41 / 40</u>	<u>314 / 288</u>	<u>54 / 50</u>	<u>152 / 134</u>	<u>41 / 32</u>	<u>86 / 80</u>	<u>34 / 16</u>	<u>173 / 87</u>
W18	Heat pump water heating Imp. 70%		<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	
W19	Heat pump water heating Imp. 80%		<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	
W20	Heat pump water heating Imp. 90%		<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	
W21	Gas fired > 105 kBtu/h (Et rated) min eff. Gas water heater Min Eff.		<u>0 / 0</u>	<u>0 / 0</u>	<u>0 / 0</u>	<u>0 / 0</u>	<u>0 / 0</u>	<u>0 / 0</u>	<u>0 / 0</u>	<u>0 / 0</u>	<u>0 / 0</u>
W22	Gas fired > 105 kBtu/h (Et rated) efficiency imp. 10% Gas water heater Imp. 5%		<u>32 / 31</u>	<u>7 / 7</u>	<u>42 / 39</u>	<u>7 / 6</u>	<u>18 / 16</u>	<u>10 / 8</u>	<u>14 / 13</u>	<u>8 / 4</u>	<u>24 / 14</u>
W23	Gas fired > 105 kBtu/h (Et rated) efficiency imp. 20% Gas water heater Imp. 10%	<u>58 / 57</u>	<u>13 / 13</u>	<u>77 / 71</u>	<u>12 / 12</u>	<u>34 / 30</u>	<u>18 / 15</u>	<u>27 / 24</u>	<u>15 / 7</u>	<u>45 / 25</u>	
W24	Gas fired <= 105 kBtu/h (UEF rated) min eff. Gas water heater Imp. 15%	<u>0 / 0</u>	<u>0 / 0</u>	<u>-72 / -43</u>	<u>0 / 0</u>	<u>0 / 0</u>	<u>0 / 0</u>	<u>0 / 0</u>	<u>0 / 0</u>	<u>0 / 0</u>	
W25	Gas fired <= 105 kBtu/h	<u>0 / 0</u>	<u>0 / 0</u>	<u>14 / 22</u>	<u>22 / 25</u>	<u>0 / 0</u>	<u>8 / 7</u>	<u>0 / 0</u>	<u>10 / 5</u>	<u>12 / 7</u>	

ID	Credit Measure	Section Reference	Occupancy Group (Climate Zone 4C / 5B)								
			<u>R-1</u> <u>R-4</u> <u>I-1</u>	<u>I-2</u>	<u>R-2</u>	<u>B</u>	<u>A-2</u>	<u>M</u>	<u>E</u>	<u>S-1</u> <u>S-2</u>	<u>All</u> <u>Other</u>
	(UEF rated) efficiency imp. 20%Gas water heater Imp. 20%										
W26	Gas fired <= 105 kBtu/h (UEF rated) efficiency imp. 40%Gas water heater Imp. 25%		0 / 0 †	0 / 0 †	74 / 71 †	37 / 41 †	0 / 0 †	16 / 14 †	0 / 0 †	17 / 8 †	42 / 15 †
??	Gas fired <= 105 kBtu/h (UEF rated) efficiency imp. 60%		0 / 0	0 / 0	116 / 107	46 / 52	0 / 0	23 / 19	0 / 0	23 / 11	63 / 22
W27	Gas heat pump Min Eff.		66 / 64 †	15 / 15 †	180 / 167 †	27 / 25 †	79 / 69 †	27 / 22 †	41 / 39 †	31 / 16 †	97 / 46 †
W28	Gas heat pump Imp. 10%		∕	∕	∕	∕	∕	∕	∕	∕	∕
W29	Gas heat pump Imp. 20%		∕	∕	∕	∕	∕	∕	∕	∕	∕
W30	Gas heat pump Imp. 30%		∕	∕	∕	∕	∕	∕	∕	∕	∕
W31	Gas heat pump Imp. 40%		∕	∕	∕	∕	∕	∕	∕	∕	∕
W32	Gas heat pump Imp. 50%	C406.2.2.3	∕	∕	∕	∕	∕	∕	∕	∕	∕
W33	Gas heat pump Imp. 60%		∕	∕	∕	∕	∕	∕	∕	∕	∕
W34	Gas heat pump Imp. 70%		∕	∕	∕	∕	∕	∕	∕	∕	∕
W35	Gas heat pump Imp. 80%		∕	∕	∕	∕	∕	∕	∕	∕	∕
W36	Gas heat pump Imp. 90%		∕	∕	∕	∕	∕	∕	∕	∕	∕

Table C406.2 (8)

Renewable Energy Credit Measures

ID	Credit Measure	Section Reference	Occupancy Group (Climate Zone 4C / 5B)								
			R-1 R-4 I-1	I-2	R-2	B	A-2	M	E	S-1 S-2	All Other
R01	Renewable energy	C406.2.5	<u>5/6</u>	<u>5/5</u>	<u>10/10</u>	<u>16/17</u>	<u>1/1</u>	<u>16/14</u>	<u>15/16</u>	<u>58/32</u>	<u>20/18</u>

Table C406.2 (9)

Other Efficiency Credit Measures

ID	Credit Measure	Section Reference	Occupancy Group (Climate Zone 4C / 5B)								
			R-1 R-4 I-1	I-2	R-2	B	A-2	M	E	S-1 S-2	All Other
Q01	Group R kitchen equipment	C406.2.15	/	/	<u>5/4</u>	N/A	N/A	N/A	N/A	N/A	<u>1/0</u> N/A
Q02	Group R-2 induction cooktop	C406.2.21	N/A	N/A	<u>1/1</u>	N/A	N/A	N/A	N/A	N/A	N/A
Q03	Group R-2 laundry equipment	C406.2.16	N/A	N/A	<u>3/2</u>	N/A	N/A	N/A	N/A	N/A	<u>N/A</u> 1/0
Q04	Heat pump clothes dryers	C406.2.17	<u>30/28</u>	/	<u>21/17</u>	N/A	N/A	N/A	N/A	N/A	<u>N/A</u> 10/4
Q05	Efficient elevator equipment	C406.2.18	<u>12/11</u>	<u>7/6</u>	<u>13/11</u>	<u>27/25</u>	<u>0/0</u>	<u>0/0</u>	<u>2/2</u>	<u>0/0</u>	<u>11/5</u>
Q06	Thermal energy networks	C406.2.19	/	/	/	/	/	/	/	/	/
	Enhanced Commercial Kitchen Equipment	C406.2.14	<u>0/0</u>	<u>0/0</u>	<u>0/0</u>	<u>0/0</u>	<u>21/17</u>	<u>0/0</u>	<u>0/0</u>	<u>0/0</u>	<u>0/0</u>

[Statutory Authority: RCW 19.27A.045 and chapter 19.27A RCW. WSR 24-16-145, § 51-11C-40620, filed 8/7/24, effective 9/7/24. Statutory Authority: RCW 19.27A.020, 19.27A.025, 19.27A.160, chapters 19.27A and 19.27 RCW. WSR 24-03-085, § 51-11C-40620, filed 1/16/24, effective 3/15/24; WSR 22-14-091, 23-12-101, and 23-20-021, § 51-11C-40620, filed 7/1/22, 6/7/23, and 9/25/23, effective 3/15/24.]