

**STANDARDS TABLE 151-C ALTERNATIVE COMPONENT PACKAGE D**

Climate Zone	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<b>BUILDING ENVELOPE</b>																
Insulation minimums <sup>1</sup>																
Ceiling	R38	R30	R30	R30	R30	R30	R30	R30	R30	R30	R38	R38	R38	R38	R38	R38
Wood-frame walls	R21	R13	R13	R13	R13	R13	R13	R13	R13	R13	R19	R19	R19	R21	R21	R21
“Heavy mass” walls	(R4.76)	(R2.44)	(R2.44)	(R2.44)	(R2.44)	(R2.44)	(R2.44)	(R2.44)	(R2.44)	(R2.44)	(R4.76)	(R4.76)	(R4.76)	(R4.76)	(R4.76)	(R4.76)
“Light mass” walls	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Below-grade walls	R0	R0	R0	R0	R0	R0	R0	R0	R0	R0	R0	R0	R0	R0	R0	R13
Slab floor perimeter	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	R7
Raised floors	R19	R19	R19	R19	R19	R19	R19	R19	R19	R19	R19	R19	R19	R19	R19	R19
Concrete raised floors	R8	R8	R0	R0	R0	R0	R0	R0	R0	R0	R8	R4	R8	R8	R4	R8
Radiant Barrier	NR	REQ	NR	REQ	NR	NR	NR	REQ	REQ	REQ	REQ	REQ	REQ	REQ	REQ	NR
<b>FENESTRATION</b>																
Maximum U-factor <sup>2</sup>	0.57	0.57	0.67	0.67	0.67	0.67	0.67	0.67	0.67	0.57	0.57	0.57	0.57	0.57	0.57	0.55
Maximum Solar Heat Gain Coefficient (SHGC) <sup>3</sup>	NR	0.40	NR	0.40	NR	NR	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40	NR
Maximum total area	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%
Maximum West facing area	NR	5%	NR	5%	NR	NR	5%	5%	5%	5%	5%	5%	5%	5%	5%	NR
<b>THERMAL MASS<sup>4</sup></b>	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
<b>SPACE-HEATING<sup>5</sup></b>																
Electric-resistant allowed	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
If gas, AFUE =	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN
If heat pump, HSPF <sup>6</sup> =	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN
<b>SPACE-COOLING</b>																
SEER =	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN	MIN
If split system,	NR	REQ <sup>9</sup>	NR	NR	NR	NR	NR	REQ <sup>9</sup>	REQ <sup>9</sup>	REQ <sup>12</sup>	REQ <sup>12</sup>	REQ <sup>12</sup>	REQ <sup>13</sup>	REQ <sup>14</sup>	REQ	NR
Refrigerant charge measurement or Thermostatic Expansion valve																
<b>DUCTS</b>																
Duct sealing	REQ <sup>8</sup>	REQ <sup>9</sup>	REQ <sup>10</sup>	REQ <sup>11</sup>	REQ <sup>10</sup>	REQ <sup>10</sup>	REQ <sup>10</sup>	REQ <sup>9</sup>	REQ <sup>9</sup>	REQ <sup>12</sup>	REQ <sup>12</sup>	REQ <sup>12</sup>	REQ <sup>13</sup>	REQ <sup>14</sup>	REQ	REQ <sup>8</sup>
Duct Insulation	R-6	R-6	R-6	R-6	R-6	R-4.2	R-4.2	R-4.2	R-6	R-6	R-6	R-6	R-6	R-8	R-8	R-8
<b>WATER-HEATING</b>	System shall meet Section 151 (f) 8 or Section 151 b															