



PHIUS CORE Prescriptive 2021 - Reference Tables

Opaque Component R-Value Ranges [hr.sf.F/Btu]											
Climate Zone	0 & 1	2	3A/B	3C	4A/B	4C	5A/B	5C	6	7	8
Walls & Overhanging Floors (Above Grade)	R 16 - 28	R 24 - 32	R 24 - 40	R 28 - 32	R 32 - 48	R 28 - 44	R 32 - 52	R 36 - 48	R 40 - 56	R 48 - 84	R 52 - 132
Roofs	R 48 - 56	R 52 - 60	R 56 - 68	R 56 - 60	R 64 - 80	R 60 - 76	R 64 - 80	R 64 - 80	R 72 - 84	R 76 - 120	R 80 - 164
Walls & Floors (Below Grade)	R 1 - 16	R 8 - 16	R 8 - 20	R 8 - 16	R 16 - 24	R 12 - 24	R 16 - 32	R 8 - 28	R 20 - 36	R 24 - 60	R 32 - 80
Ceilings (Unconditioned Basement / Crawlspace)	R 7 - 22	R 14 - 22	R 14 - 26	R 14 - 22	R 22 - 30	R 18 - 30	R 22 - 38	R 14 - 34	R 26 - 42	R 30 - 66	R 38 - 86

Fenestration U-Value Ranges [Btu/hr.sf.F]											
Climate Zone	0 & 1	2	3A/B	3C	4A/B	4C	5A/B	5C	6	7	8
Windows & Doors (Whole-Window)	0.5 - 0.29	0.5 - 0.23	0.47 - 0.19	0.39 - 0.25	0.23 - 0.16	0.37 - 0.18	0.24 - 0.13	0.27 - 0.2	0.19 - 0.11	0.22 - 0.09	0.19 - 0.08

Fenestration Solar Protection Ranges											
Climate Zone	0 & 1	2	3A/B	3C	4A/B	4C	5A/B	5C	6	7	8
Maximum SHGC* (Whole-Window)	0.25	0.25	0.25	0.30	0.40	NR					
Minimum South Overhang (Projection Factor)	0.06 - 0.59	0.42 - 0.58	0.53 - 0.71	0.6 - 0.67	NR						
Adequate Exposure Diversity (AED)	Varies**										
Net Heat Gain	NR			Varies		NR	Varies	NR	Varies		NR

*Solar Heat Gain Coefficient

**Dependent on both building and climate factors.

Mechanical Efficiency Ranges													
Climate Zone	0 & 1	2	3A	3B	3C	4A	4B	4C	5A/B	5C	6	7	8
Minimum SRE¹ (E/HRVs)	NR	60 - 65%	60 - 76%		60 - 62%	71 - 82%		60 - 81%	72 - 85%	69 - 76%	78 - 87%	76 - 89%	78 - 91%
Minimum TRE² (E/HRVs)	60%	60%	60%	NR		50%	NR						
Heating	Minimum COP³ @ 5°F: (Air-Source Heat Pumps)	NR				1.75	NR	1.75	NR	1.75			
	Minimum HSPF⁴ (Air-Source Heat Pumps)	9.6				NR	9.6	NR	9.6	NR			
	Minimum COP (Ground-Source Heat Pumps)	3.1											
Cooling	Minimum SEER⁵ (Air-Source Heat Pumps)	18				15	18	15	18	15			
	Minimum EER⁶ (Ground-Source Heat Pumps)	16.1											

1 Sensible Recovery Efficiency

2 Total Recovery Efficiency

3 Coefficient of Performance

4 Heating Seasonal Performance Factor

5 Seasonal Energy Efficiency Ratio

6 Energy Efficiency Ratio