

TABLE 143-B PRESCRIPTIVE ENVELOPE CRITERIA FOR HIGH-RISE RESIDENTIAL BUILDINGS AND GUEST ROOMS OF HOTEL/MOTEL BUILDINGS

	CLIMATE ZONES									
	1, 16		3-5		6-9		2,10-13		14, 15	
<b>Roof/Ceiling</b>										
U-factor	0.036		0.051		0.051		0.036		0.036	
R-value <sup>1</sup>	30		19		19		30		30	
<b>Wall</b>										
R-value or U-factor	19		11		11		13		13	
Wood frame	0.074		0.110		0.110		0.102		0.102	
Metal frame	0.183		0.224		0.224		0.217		0.217	
Metal building	0.061		0.123		0.123		0.113		0.113	
Mass/7.0≤HC<15.0	0.330		0.430		0.430		0.430		0.430	
Mass/15.0≤HC	0.360		0.650		0.690		0.650		0.410	
Other	0.074		0.110		0.110		0.102		0.102	
<b>Floor/Soffit</b>										
R-value or U-factor	19		11		11		11		11	
Mass/7.0≤HC	0.090		0.139		0.139		0.090		0.090	
Other	0.048		0.071		0.071		0.071		0.071	
Raised concrete R-value	8		*		*		*		*	
<b>Windows</b>										
U-factor <sup>2</sup>	0.47		0.47		0.47		0.47		0.47	
<b>Relative solar heat gain</b>	Non-North	North	Non-North	North	Non-North	North	Non-North	North	Non-North	North
0-10% WWR	0.46	0.68	0.41	0.61	0.47	0.61	0.36	0.49	0.36	0.47
11-20% WWR	0.46	0.68	0.40	0.61	0.40	0.61	0.36	0.49	0.31	0.43
21-30% WWR	0.36	0.47	0.31	0.61	0.36	0.61	0.31	0.40	0.26	0.43
31-40% WWR	0.30	0.47	0.26	0.55	0.31	0.61	0.26	0.40	0.26	0.31
<b>Skylights</b>										
U-factor <sup>2</sup>	Glass w/Curb		1.18		1.42		1.42		1.18	
	Glass wo/Curb		0.68		0.82		0.82		0.68	
	Plastic w/Curb		1.04		1.56		1.56		1.32	
SHGC Glass	0-2%		0.46		0.58		0.61		0.46	
	2.1-5%		0.36		0.32		0.40		0.32	
SHGC Plastic	0-2%		0.71		0.65		0.65		0.65	
	2.1-5%		0.55		0.39		0.65		0.34	
<p>Note: Construction assembly U-factors shall be calculated in accordance with Appendix IV.</p> <p><sup>1</sup> R-value cannot be used for compliance when roof has metal framing members or a metal deck unless additional rigid insulation is installed. See Section 143 (a) 1 C.</p> <p>* Required insulation levels for concrete raised floors are R-8 in Climate Zones 2, 11, 13, and 14; R-4 in Climate Zones 12 and 15, and R-0 in Climate Zones 3 through 10.</p> <p><sup>2</sup>U-factor adjustments are made to make the criteria consistent with revised NFRC rating procedures.</p>										