



Thermal Requirements Summary

Semi-Rigid Continuous Insulation and Metal Stud Back-up

IBC 2021 & IECC 2021

Revised: August 2025

IECC 2021 (Climate Zone 5, All Other Use)						
	Code (IECC 2021 + MA Amendments*)		Proposed Base		Proposed Optimized	
	R-Value	U-Factor	R-Value	U-Factor	R-Value	U-Factor
Roofs						
Insulation Entirely Above Roof Deck	R-30ci	U-0.032	R-30ci	U-0.032	R-40ci	U-0.025
Walls Above Grade						
Metal Framed	R-13+R-10ci	U-0.055	R-19.4ci	U-0.053**	R-13+R-19.4ci	U-0.040**
Slab-On-Grade Floors						
Unheated Slabs	R-15ci	F-0.52	R-15ci	F-0.52	R-15ci	F-0.52
Vertical Fenestration						
Fixed	NA	U-0.36 U-0.30*	NA	U-0.29	NA	U-0.24
Operable	NA	U-0.45 U-0.32*	NA	U-0.30	NA	U-0.30
* MA specific requirement. ** U-Factor includes clear field thermal derating as required by IECC 2021 Section C402.1.3.						