

2021 Commercial Energy Efficiency Compliance Sheet

Climate Zone 4 Except Marine - Winchester, Virginia

The building thermal envelop shall meet the requirements of Tables C402.1.3 & C402.1.4 based on climate zone 4A. Group R occupancies shall use the R-values stipulated in the Group R Column. Please use the Residential Energy Compliance Sheet for R-Residential Use Groups less than 3 stories in height

	All Others Minimum R Value	Group R: 3 or more stories in height Minimum R Value	Proposed R Value (Assemblies Must meet or exceed the prescriptive R value listed)
Roofs			
insulated entirely above deck	R-30ci	R-30ci	
Metal Buildings (with R-5 thermal blocks)	R-19+R-11 LS	R-19+R-11 LS	
Attics and other	R-49	R-49	

Walls Above Grade

Mass	R-9.5ci	R-11.4ci	
Metal Building	R-13+R13ci	R-13+R14ci	
Metal Framed	R-13+R7.5ci	R-13+R7.5ci	
Wood Framed and other	R-13+R3.8ci or R-20	R-13+R3.8ci or R-20	

Walls Below Grade

Below Grade Walls	R7.5ci	R10 ci	
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Floors

Mass	R14.6 ci	R16.7 ci	
Joist/Framing (steel/wood)	R-30	R-30	

Slab On Grade Floors

Unheated Slabs	R-15 24" below grade	R-15 24" below grade	
Heated Slabs	R15-24" below grade +R-5 full slab	R15-24" below grade +R-5 full slab	

Opaque doors

Swinging	U-0.37	U-0.37	
Roll-up or sliding	U-0.31	U-0.31	
Garage Doors <14% Glazing	U-0.31	U-0.31	

FOR MORE INFORMATION ON ENERGY AND THE BUILDING ENVELOPE VISIT

<https://www.energycodes.gov/comcheck>

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Signature

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CI - Continuous Insulation without interruption of framing members.

LS= A continuous Membrane installed below the purlins and uninterrupted by framing members. Uncompressed, unfaced insulation rests on top of the membrane between the purlins