

IECC 2015 / ASHRAE 2013 Fiberglass Solutions

IECC 2015 Building Envelope Requirements, Table C402.1.4 Metal Building Walls			
Climate Zone	Prescriptive Maximum U-Factor	Compliance Options	
		U - Factor	Assembly Description
1	0.079	0.059*	Single Layer, Filled Cavity Fiberglass System - R-25 with 1/8" Foam Tape
2			
3			
4	0.052	0.052*	Single Layer, Filled Cavity Fiberglass System - R-30 with 1/8" Foam Tape
5			
6			
7			
8			

* Use with ComCheck - Other Metal Building Wall

IECC 2015 Building Envelope Requirements, Table C402.1.4 Metal Building Roof			
Climate Zone	Prescriptive Maximum U-Factor	Compliance Options	
		U - Factor	Assembly Description
1 ^a	0.044	0.037**	Filled Cavity, Long Tab Banded Insulation System - Faced R-19 plus Unfaced R-11 with Thermal Blocks and Standing Seam Roof
2 ^a			
3 ^a	0.035	0.035**	Filled Cavity, Long Tab Banded Insulation System - Faced R-25 plus Unfaced R-11 with Thermal Blocks and Standing Seam Roof
4			
5			
6	0.031	0.029**	Filled Cavity, Long Tab Banded Insulation System - Faced R-25 plus Unfaced R-19 with Thermal Blocks and Standing Seam Roof
7	0.029		
8			

** Use with ComCheck - Other Metal Building Roof

^a Metal Building roofs with a slope less than 2:12, installed directly above cooled conditioned spaces in Climate Zone 1, 2 and 3 shall comply with one or more of the following options; 3 year aged Solar Reflectance of 0.55 and a 3 year aged Solar Emittance of 0.75 or a 3 year aged Solar Reflectance Index of 64, see C402.3 for a list of exceptions.

ASHRAE 90.1-2013 Building Envelope Requirements, Table 5.5 Non-Residential Metal Building Walls			
Climate Zone	Prescriptive Maximum U-Factor	Compliance Options	
		U - Factor	Assembly Description
1	0.094	0.059*	Single Layer, Filled Cavity Fiberglass System - R-25 with 1/8" Foam Tape
2			
3			
4	0.060	0.039*	Double Layer, Filled Cavity Fiberglass System - Faced R-25 plus Unfaced R-16 with 1/8" Foam Tape
5	0.050		
6			
7	0.044		
8	0.039		

* Use with ComCheck - Other Metal Building Wall

ASHRAE 90.1-2013 Building Envelope Requirements, Table 5.5 Non-Residential Metal Building Roof			
Climate Zone	Prescriptive Maximum U-Factor	Compliance Options	
		U - Factor	Assembly Description
1 ^b	0.041	0.037**	Filled Cavity, Long Tab Banded Insulation System - Faced R-19 plus Unfaced R-11 with Thermal Blocks and Standing Seam Roof
2			
3			
4	0.037	0.029**	Filled Cavity, Long Tab Banded Insulation System - Faced R-25 plus Unfaced R-19 with Thermal Blocks and Standing Seam Roof
5	0.031		
6			
7	0.029		
8	0.026		

** Use with ComCheck - Other Metal Building Roof

^b Metal Building roof panels installed directly above cooled conditioned spaces in Climate Zone 1, shall comply with a minimum 3 year aged Solar Reflectance value of 0.55 and a minimum 3 year aged Solar Emittance value of 0.75 or a minimum 3 year aged Solar Reflectance Index value of 64, if not, the roof insulation must be increased by installing a system with a maximum U - Factor of 0.028.