



ThermaSteel - Commercial or Non-Residential Construction				
Building Code	Compliant	Additional R-Value to reach compliance		
(Occupancy Type)	Zones			
ASHRAE 90.1-2007 or 2010	All	None		
(Non-Residential)				
ASHRAE 90.1-2013	1 - 5	Zones 6-7, R-1.5		
(Non-Residential)		Zone 8, R-8.0		
IECC 2009 (Commercial)	All	None		
IECC 2012 (Commercial)	1 - 7	Zone 8, R-3.3		
IECC 2009	1 - 6	Zone 7, R-0.3		
(Commercial – Group R)		Zone 8, R-8.0		
IECC 2012	1 - 6	Zone 7, R-0.3		
(Commercial – Group R)		Zone 8, R-3.3		

ThermaSteel - Residential Construction			
Building Code	Compliant	Changes to reach compliance	
	Zones		
ASHRAE 90.1-2007 or 2010	1-6	Zones 7-8, R-5.0	
ASHRAE 90.1-2013	1-5	Zone 6, R-1.5	
		Zones 7-8, R-5.0	
IECC 2009	All	None	
IECC 2012	1 - 5	Zones 6-8, R-2.0	

ThermaSteel - Semi-Heated Space		
Building Code	Compliant	Changes to reach compliance
	Zones	
ASHRAE 90.1-2007, 2010, or	All	None
2013		
*IECC exempts semi-heated space from its requirements		

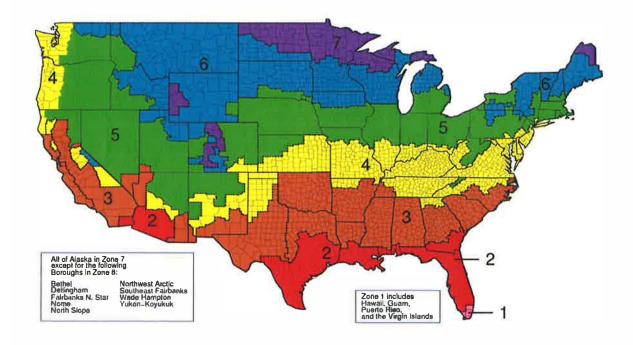
Add R-0.3: This is accomplished as long as at least one sheet of 1/2" gypsum board (R = 0.45) is included in the final assembly.

Add R-1.5:	Add $1/2$ " gypsum board + $3/8$ " of insulation board (R = 1.1 Minimum)
Add R-2.0:	Add $1/2$ " gypsum board + $1/2$ " of insulation board (R = 1.6 Minimum)
Add R-3.3:	Add $1/2$ " gypsum board + $3/4$ " of insulation board (R = 2.9 Minimum)
Add R-5.0:	Add $1/2$ " gypsum board + 1" of insulation board (R = 4.6 Minimum)
Add R-8.0:	Add $1/2$ " gypsum board + 1-1/2" of insulation board (R = 7.5 Minimum)





For reference, all of the United States, except Alaska, portions of northern Maine, Wisconsin, Michigan, North Dakota and a few areas in Wyoming and Colorado are in Climate Zones 1-6. The image below shows the different climate zones as they are defined for both ASHRAE and IECC codes.



If there are any questions or concerns, please feel free to contact me at 717-764-770 or mthoman@archtest.com.

Sincerely,

Michael J. Thoman, PE

Director – Thermal Testing and Simulations

Michael J. Thoman