Impact of the 2009 and 2012 International Energy Conservation Code In Multifamily Buildings

Prepared for:

National Multi Housing Council
National Apartment Association

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Windows and Doors -

HVAC

Other Building Components t

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Definitions

High-Efficiency Lamps:

Heating, Ventilation and Air-Conditioning (HVAC):

Lumens:

Mechanical Ventilation:

Natural Ventilation:

On-Site Renewable Energy Systems:

Performance Path:

Prescriptive Path:

R-value:

Seasonal Energy Efficiency Ratio (SEER):

Solar Heat Gain Coefficient (SHGC):

Thermal Bridging:

U-Factor:

Wall Cavity Insulation:

Organizations/ Codes

American Society of Heating, Refrigeration and Air-Conditioning Engineers (ASHRAE):

International Code Council (ICC):

International Energy Conservation Code (IECC):

Sheet Metal and Air-Conditioning Contractors' National Association (SMACNA):

Introduction

U.S. Climate Zone Map

Zone 4(Not Marine)

LOW-RISEMULTIFAMILY

Changes: 2009

Changes: 2012

x
x
x
x for R

HIGH-

x

Summary Chart: Zone 6 Changes

Zone 6	Chapter 4 Low-RiseMultifamily			Chapter 5 High-RiseMulti family		

HIGH-RISE MULTIFAMILY

Changes: 2009

Changes: 2012

x
x

x
x
x

Summary Chart: Zone 7 Changes

Zone 7	Chapter 4 Low-Rise Multifamily	Chapter 5 High-Rise Multifamily

Changes: 2012

Estimated additional costs per unit for various upgrades:

- x
- x
- x

Item	Chapter 4 Low-RiseMultifamily			Chapter 5 High-RiseMultifamily		
	Zone 1			Zone 1		
	Zone 2			Zone 2		
	Zone 3			Zone 3		

	Zone 6			Zone 6		
	Zone 7 and 8			Zone 7 and 8		

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Piping Insulation

B.5 t Electrical Systems

LOW-RISE MULTIFAMILY

Zones 4, 5, 6, 7 and 8

x
x

Zone 8

x		
x		
x		
x		
x		
x		
x	$3,087.12 - $3,409.32	$2,501.49 - $2,774.53

IECC 2012 Edition

*Low-Rise Multifamily

Zone 1

x	
x	
x	
x	$481.32 - $581.68

Zone 2

x	
x	
x	
x	
x	$584.94 - $728.08

Zone 3 with R-13 and R-5 Insulation Option

x		
x		
x		
x		
x		
x		

Zone 3 with R-20 Insulation Option

x		
x		
x		
x		
x		
x		
	$1,821.57 - $2,159.46	

Zone 4 (Not Marine) with R-13 and R-5 Insulation Option

x		
x		
x		
x		
x		
	$2,712.37 - $3,201.37	$2,038.29 - $2,449.76

Zone 4 (Not Marine) with R-20 Insulation Option

x		
x		