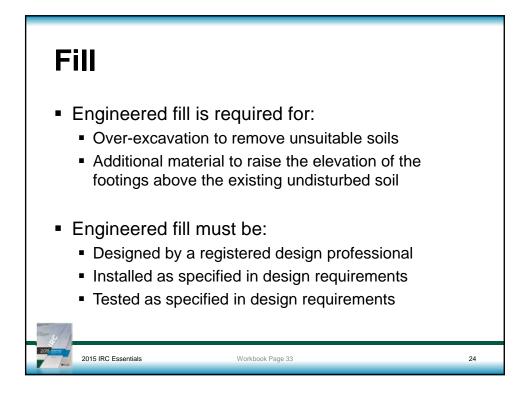
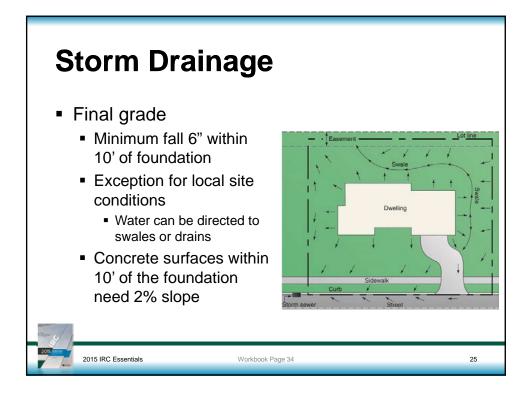


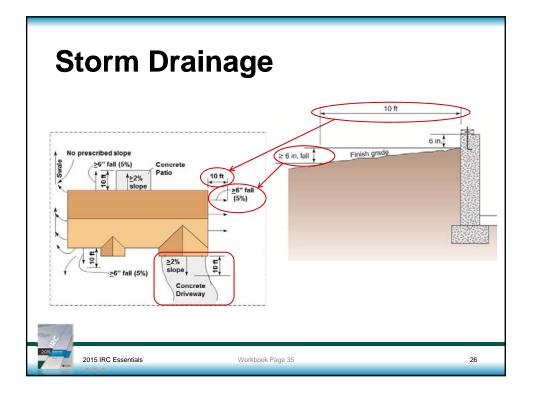


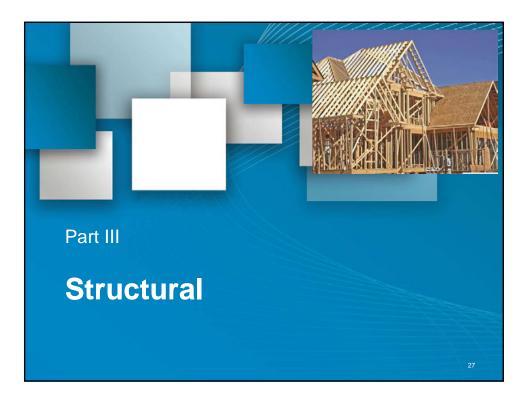
Presumptive Load-bearing Values & Properties of Soils

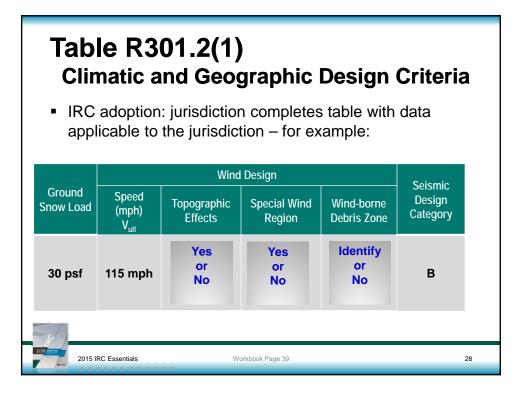
Unified Soil Classification System Symbol	Soil Description	Load Bearing Pressure (psf)	Drainage Characteristics	Frost Heave Potential	Volume Change Potential Expansion
GW	Well-graded gravels, gravel sand mixtures, little or no fines	3000	Good	Low	Low
GP	Poorly graded gravels or gravel sand mixtures, little or no fines	3000	Good	Low	Low
SW	Well-graded sands, gravelly sands, little or no fines	2000	Good	Low	Low
SP	Poorly graded sands or gravelly sands, little or no fines	2000	Good	Low	Low
GM	Silty gravels, gravel-sand-silt mixtures	2000	Good	Medium	Low
SM	Silty sand, sand-silt mixtures	2000	Good	Medium	Low
GC	Clayey gravels, gravel-sand-clay mixtures	2000	Medium	Medium	Low
SC	Clayey sands, sand-clay mixture	2000	Medium	Medium	Low
ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity	1500	Medium	High	Low
CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	1500	Medium	Medium	Medium to Low
СН	Inorganic clays of high plasticity, fat clays	1500	Poor	Medium	High
МН	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts	1500	Poor	High	High
2015 IRC	Essentials Workbook Page 32				23

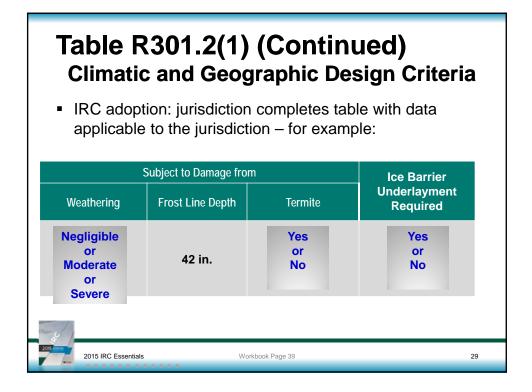


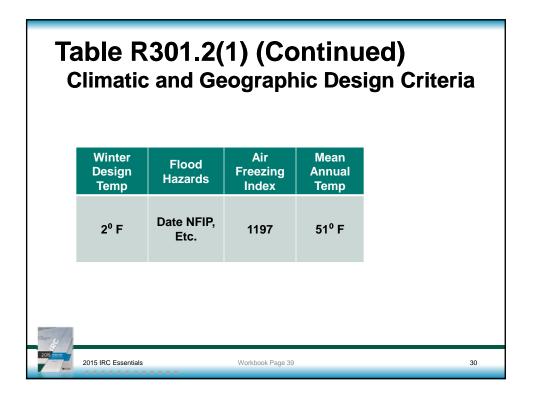


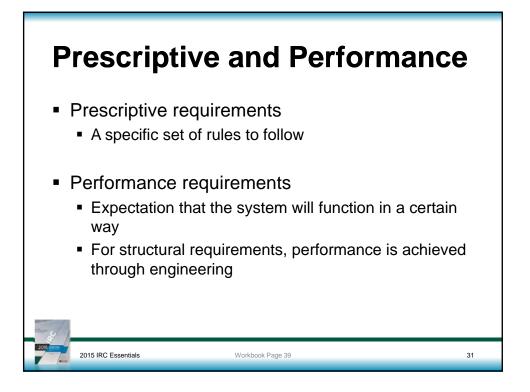


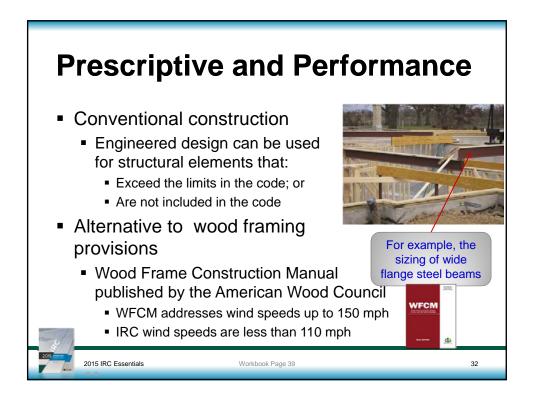






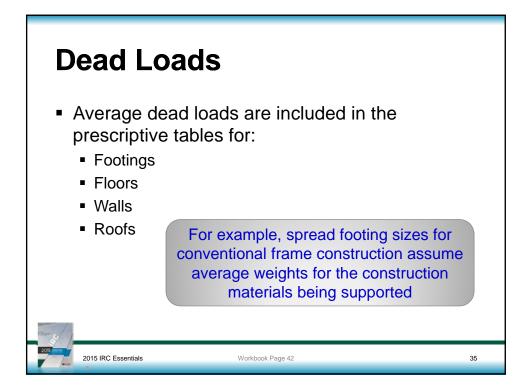


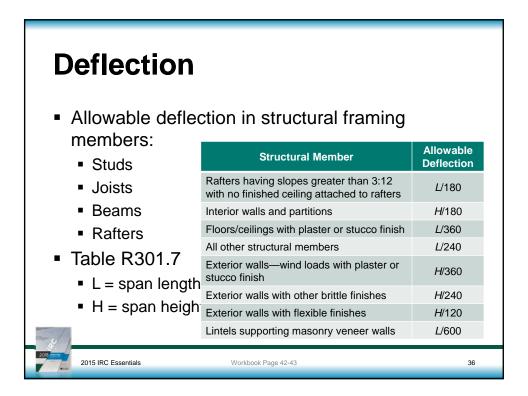


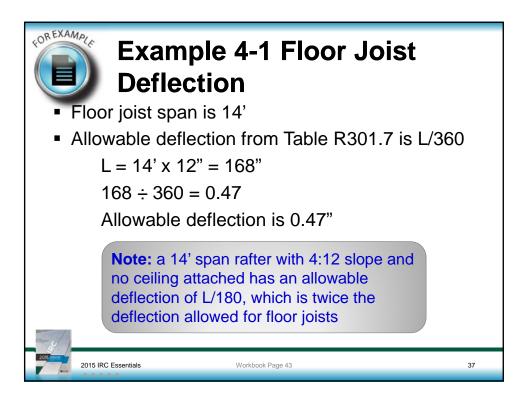


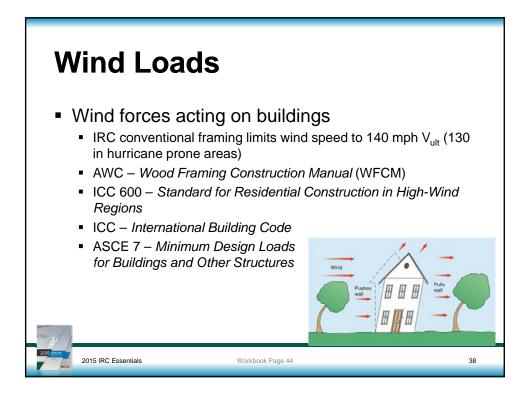
Liv	ve Loads		
	IRC Table R301.5 Minimum Uniformly Distributed	Live Loads	
	USE	LIVE LOAD (psf)	
	Uninhabitable attics without storage	10	
	Uninhabitable attics with limited storage	20	
	Habitable attics and attics served with fixed stairs	30	
	Balconies (exterior) and decks	40	
	Fire escapes	40	
	Rooms other than sleeping rooms	40	
men /	Sleeping rooms	30	
2015	015 IRC Essentials Workbook Page 40		33

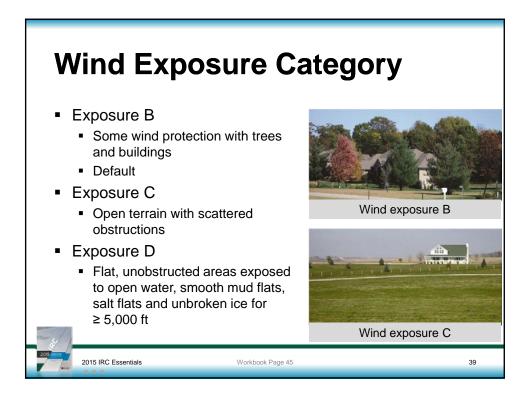
		IRC Ta	ontinued) ble R301.5 Distributed Live Loads	
	USE	LIVE LOAD (psf)		
	Guardrails and handrails	200	Single concentrated load applied in any direction along the top.	
	Guardrail in-fill components	50	Horizontally applied normal load of 50 lb. on area of 1 sq. ft.	
	Passenger vehicle garages	50	2,000-lb concentrated load / 20-sq. in. area.	
	Stairs	40	300-lb concentrated load / 4 sq. in. of tread	
-	1			
2015	2015 IRC Essentials	Wor	kbook Page 40	34

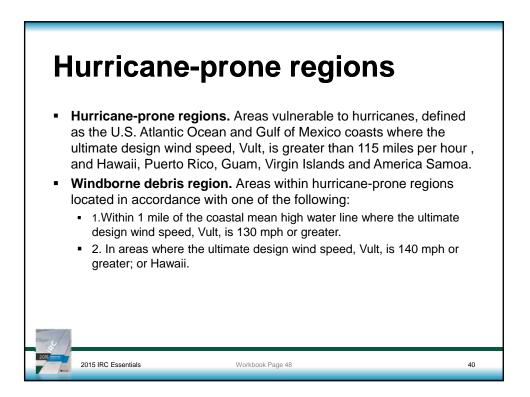


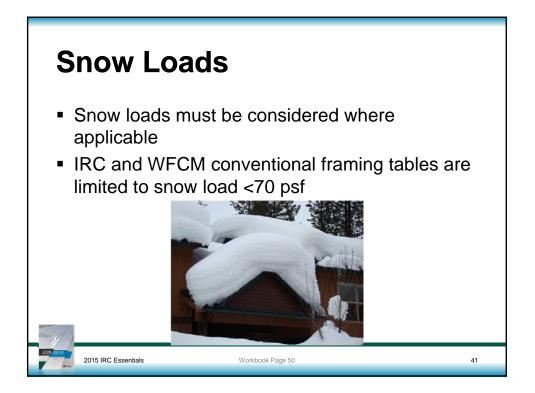


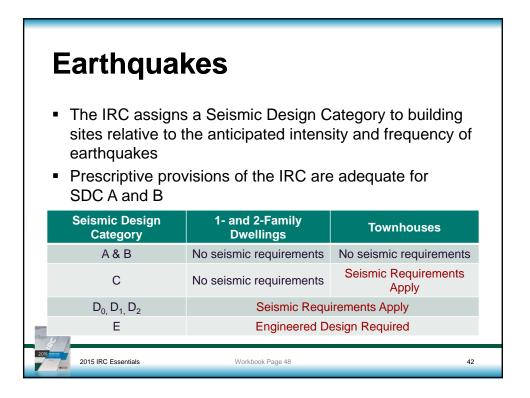


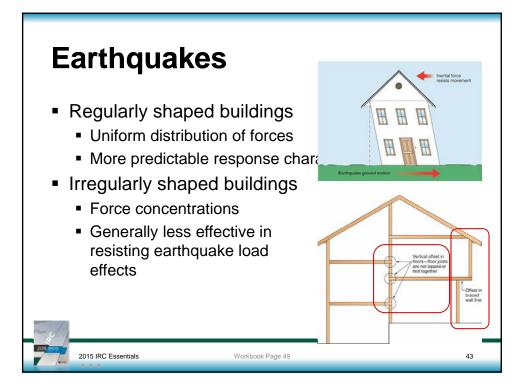




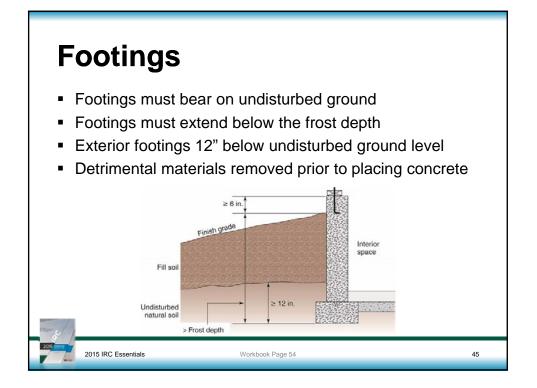




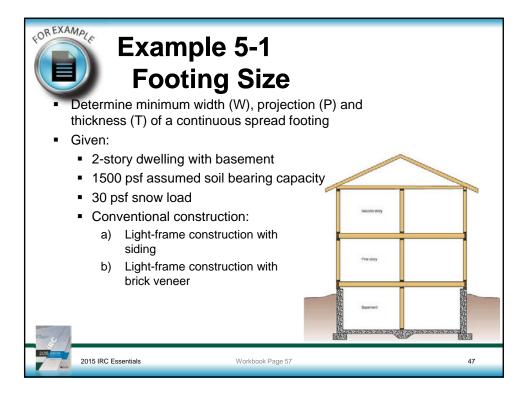


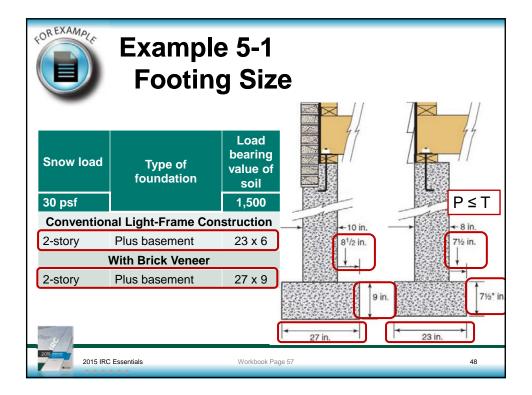


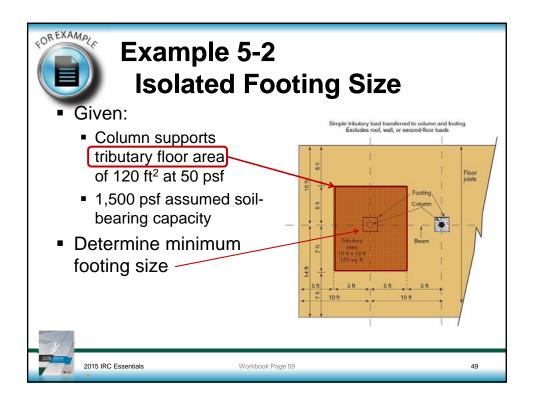


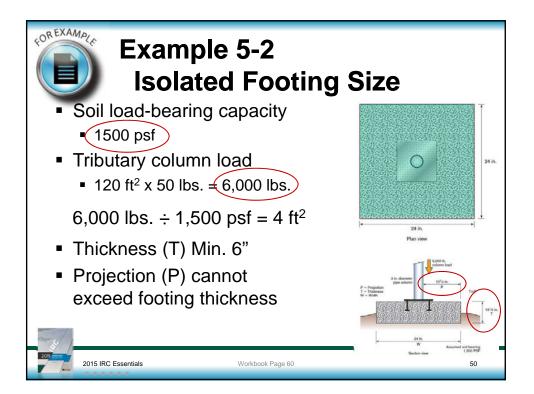


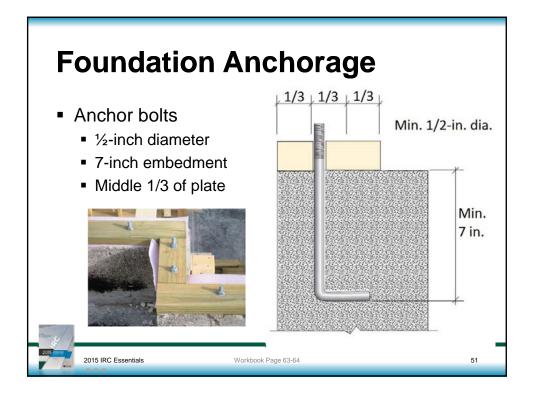
Co Snow load	onventional Light-Fra		truction aring value	e of soil	, size
30 psf	Type of foundation	1,500	2,000	2,500	
1-story	Slab-on-grade	12 x 6	12 x 6	12 x 6	
	With crawl space	13 x 6	12 x 6	12 x 6	
	Plus basement	19 x 6	14 x 6	12 x 6	
2-story	Slab-on-grade	12 x 6	12 x 6	12 x 6	- Sector
	With crawl space	17 x 6	13 x 6	12 x 6	
	Plus basement	23 x 6	17 x 6	14 x 6	
				_	
	Projection	"P" ≥ 2 ir	n and ≤]		1

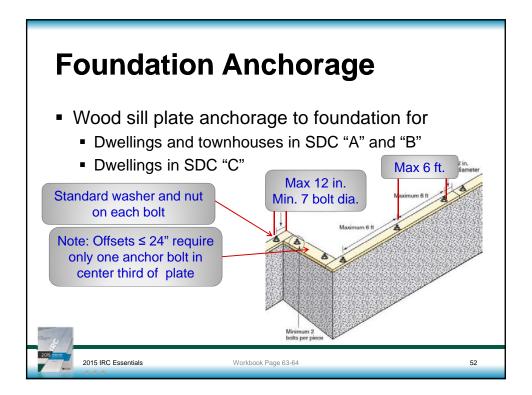


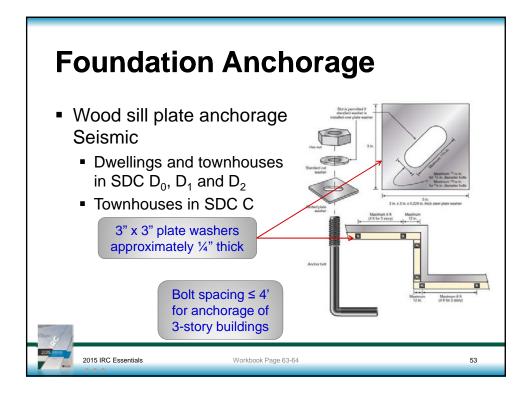


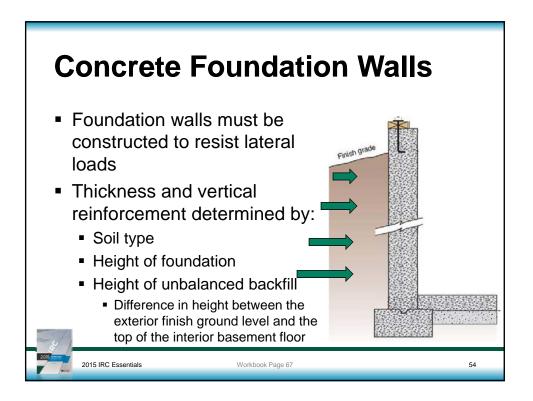


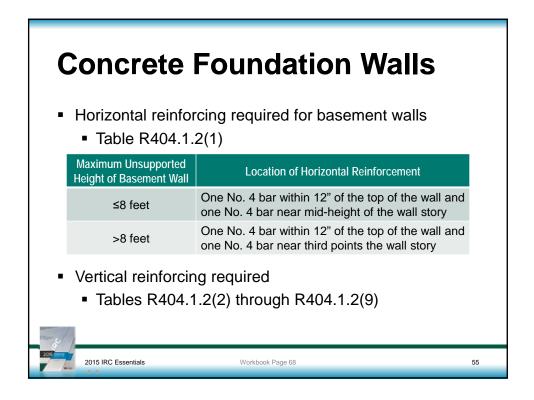


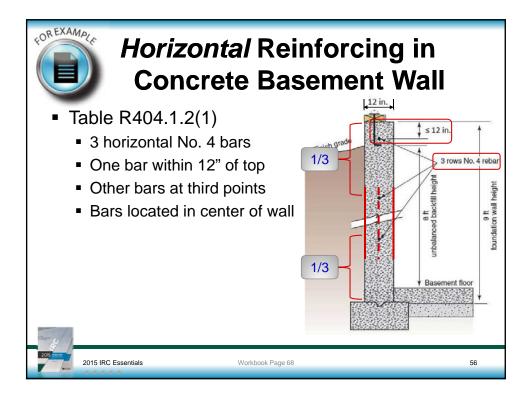


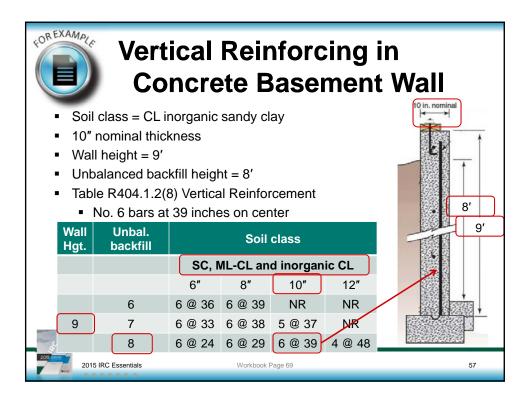


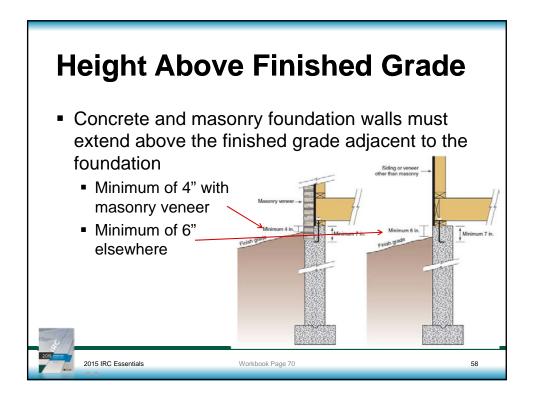


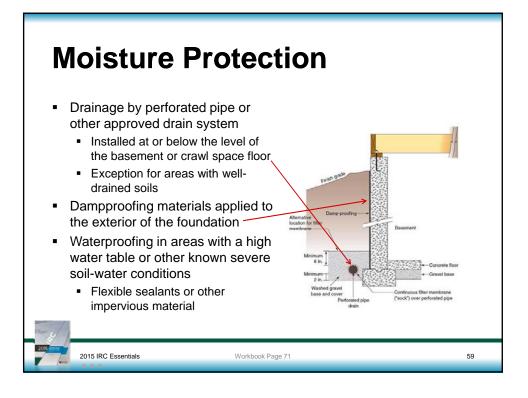


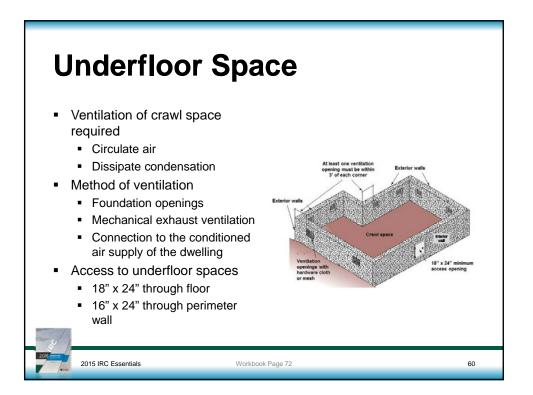


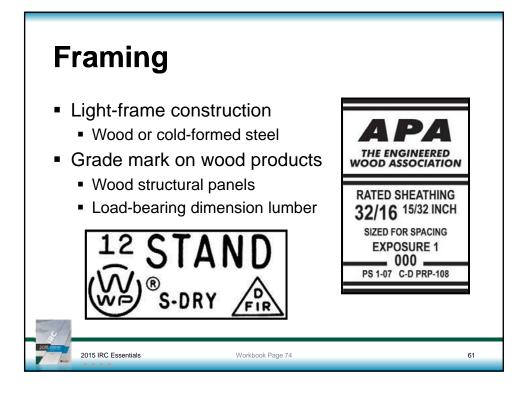




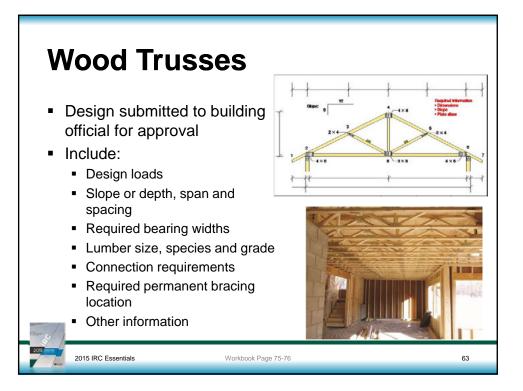


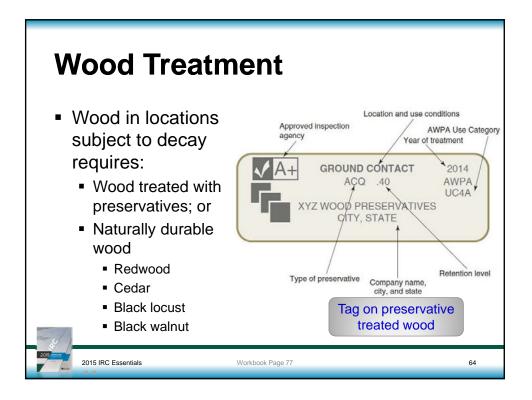


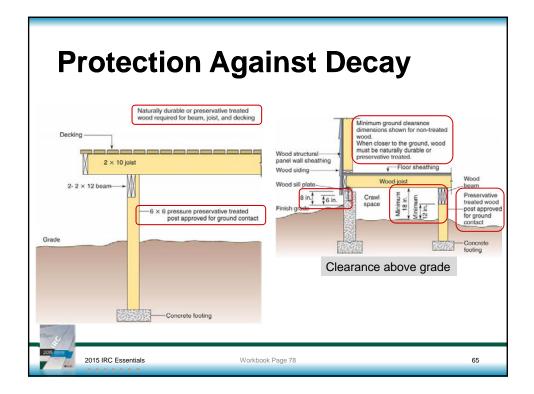


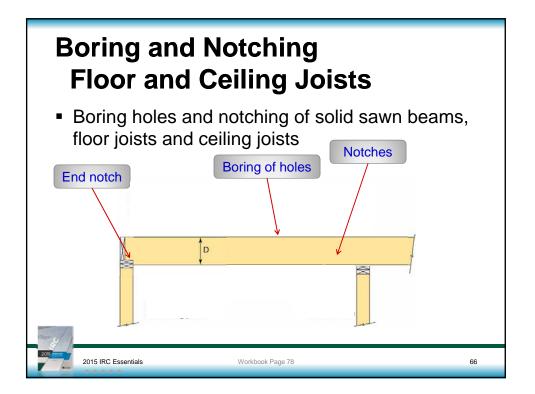


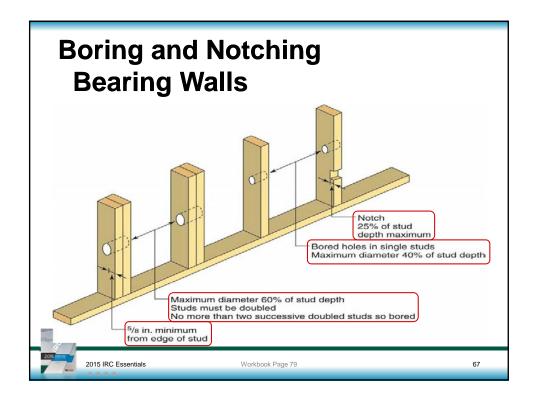


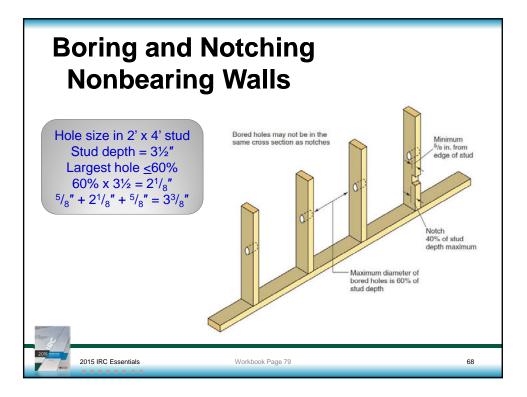


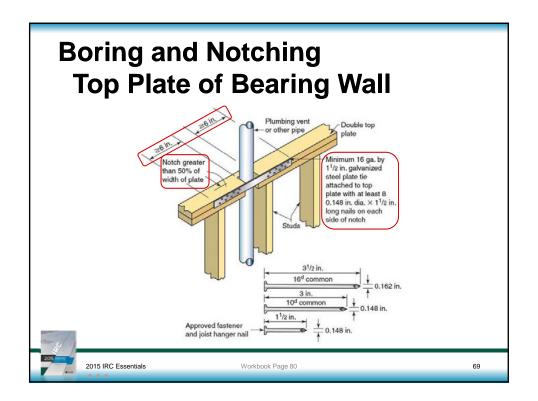


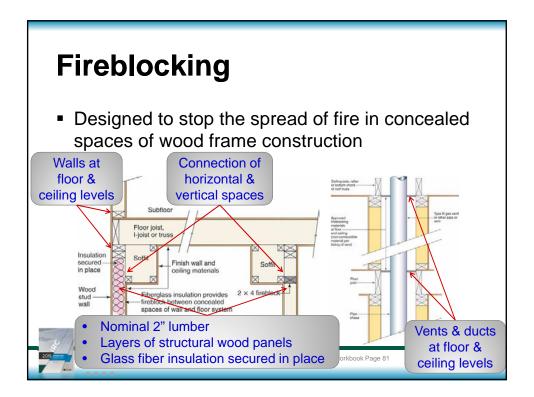


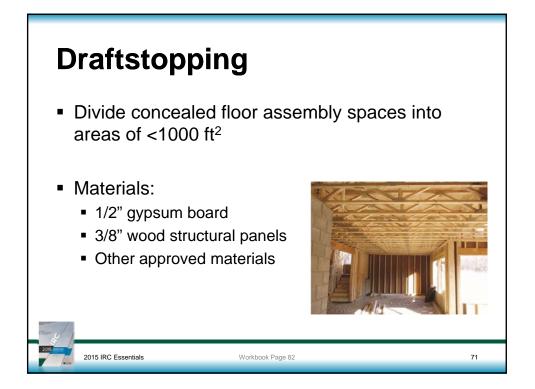


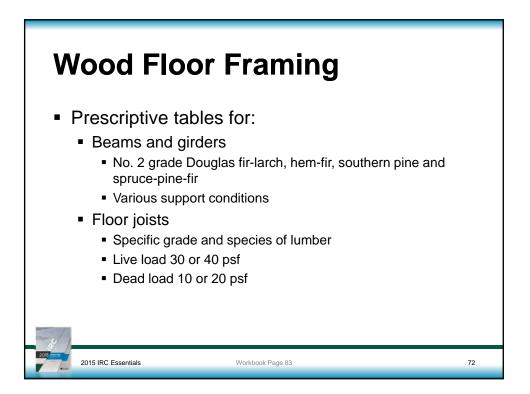


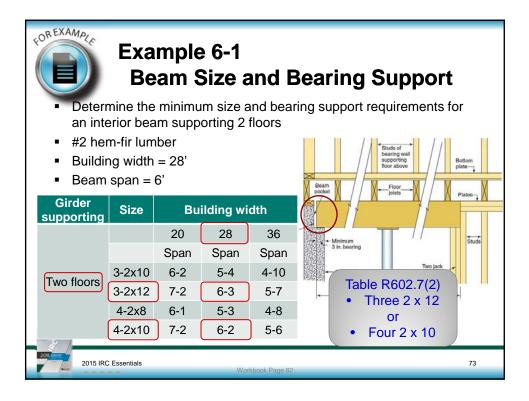


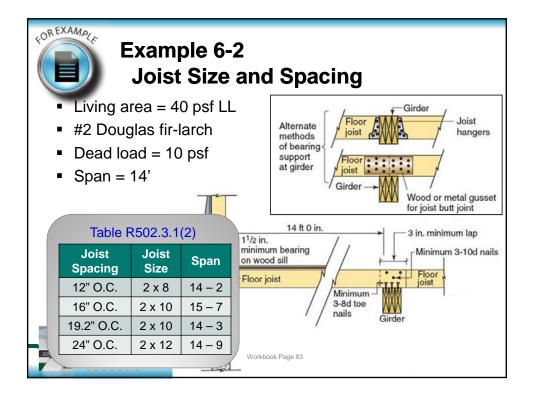


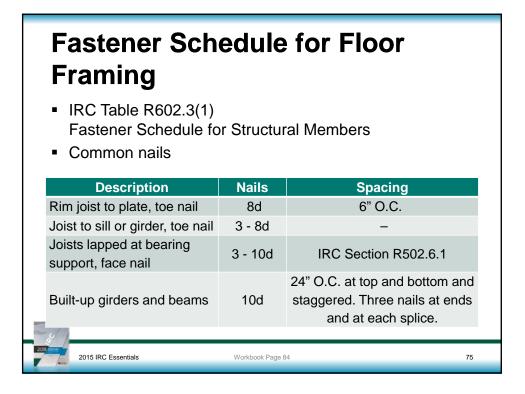


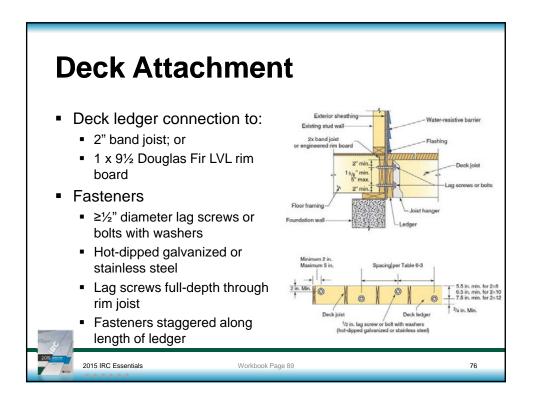


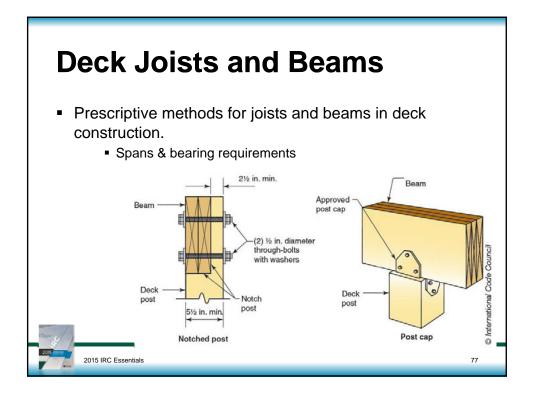


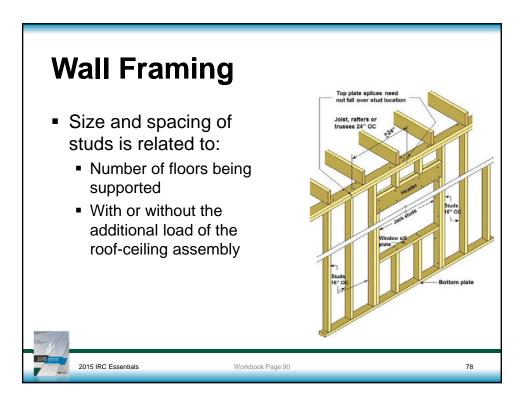


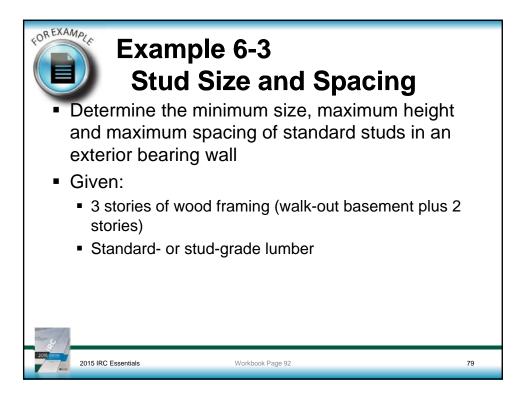


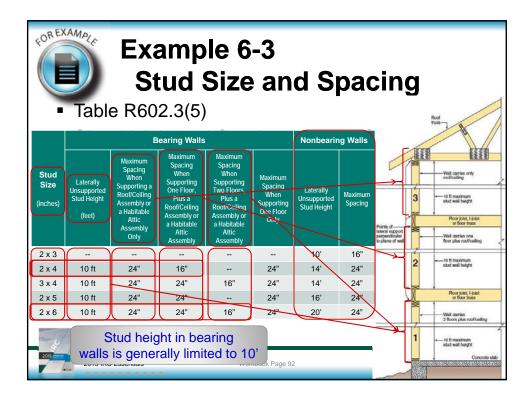


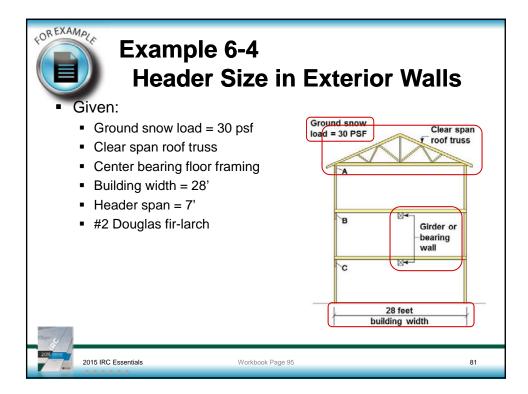


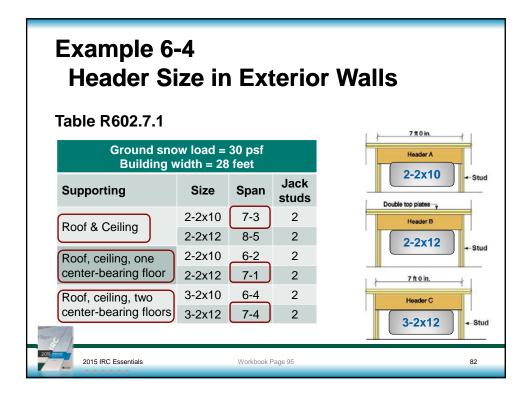


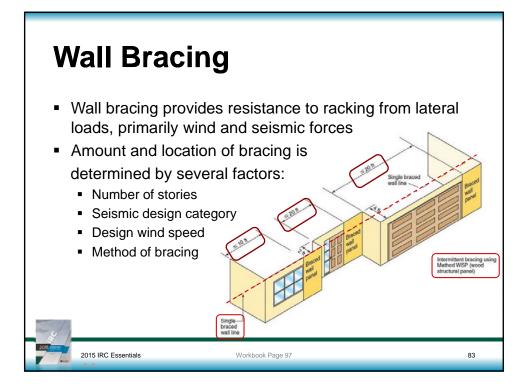


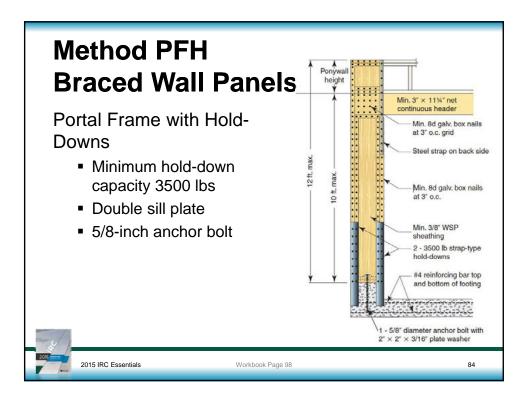


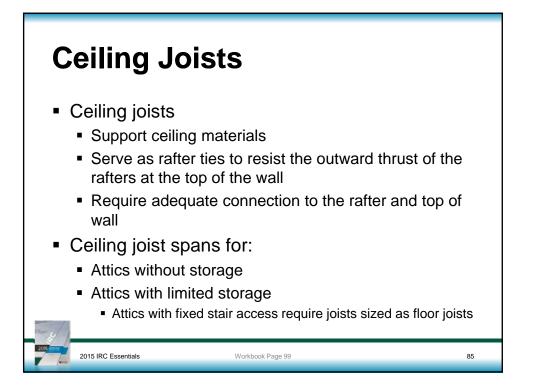


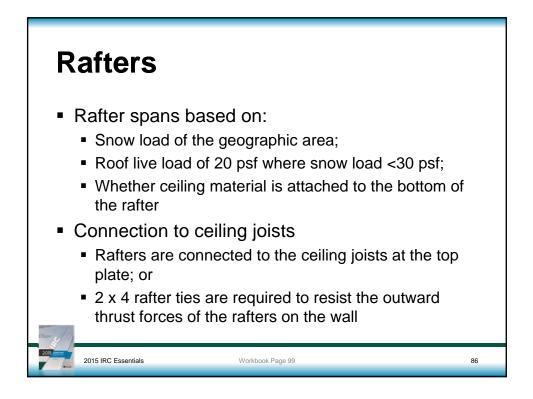


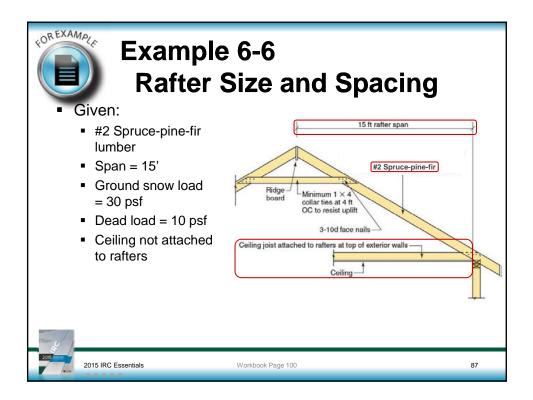




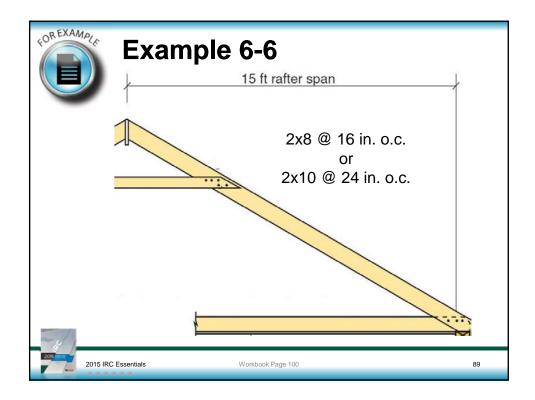








Example 6-6 Rafter Size and Spacing Table 802.5.1(3) - Rafter Spans								
			Dead Load = 10 psf					
	Rafter Spacing (inches)	Species and Grade	2 x 6	2 x 8	2 x 10			
			Maximum rafter spans					
			ft - in	ft - in	ft - in			
	16	Douglas fir-larch #2	12-1	15-4	18-9			
		Southern Pine #2	11-2	14-2	16-10			
		Spruce-pine-fir #2	11-11	15-1	18-5			
		Douglas fir-larch #2	9-9	12-4	15-1			
	24	Southern Pine #2	10-2	13-2	15-9			
		Spruce-pine-fir #2	9-9	12-4	15-1)		
and the second sec								
2015 IRC Essentials Workbook Page 100						88		



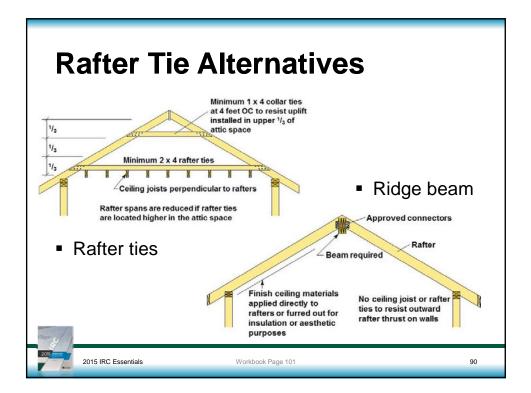
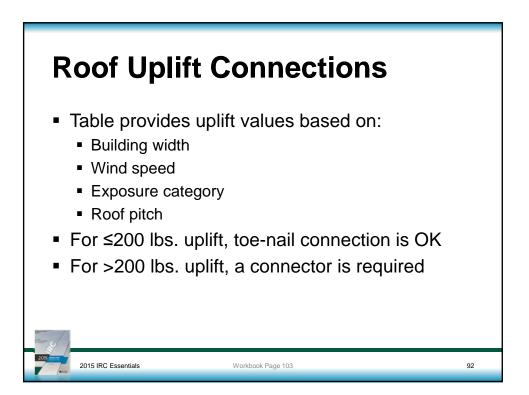
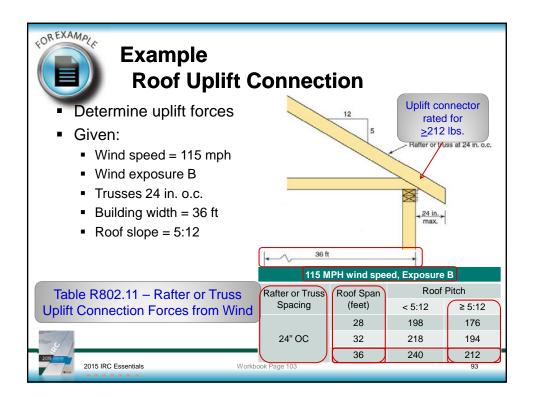
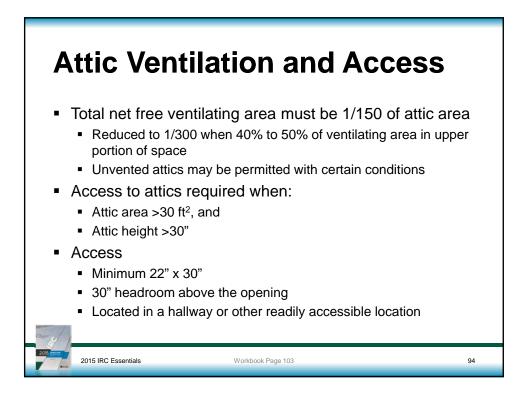


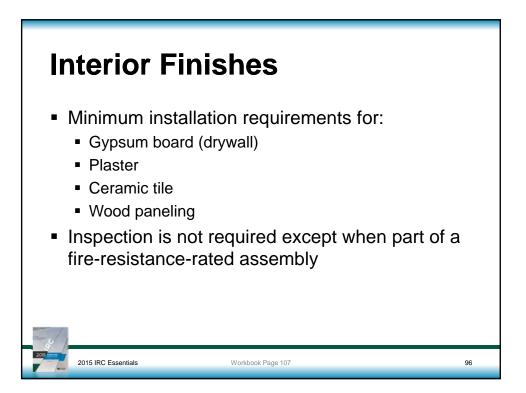
Table R602.3(1) Fastener Schedule for Roof Framing							
Description	Nails	Spacing					
Rafter or roof truss to plate, toe nail	3-16d box or 3-10d common	2 toe nails on one side and 1 toe nail on opposite side					
Roof rafters to ridge, valley or hip rafters	4-16d toe nail 3-16d face nail	-					
Ceiling joists to plate, toe nail	3-8d common	-					
Collar tie to rafter, face nail	3-10d common	-					
Rafter/ceiling joist heel joint connection	Table R802.5.1(9)	-					
2015 IRC Essentials	Workbook Page 101	91					

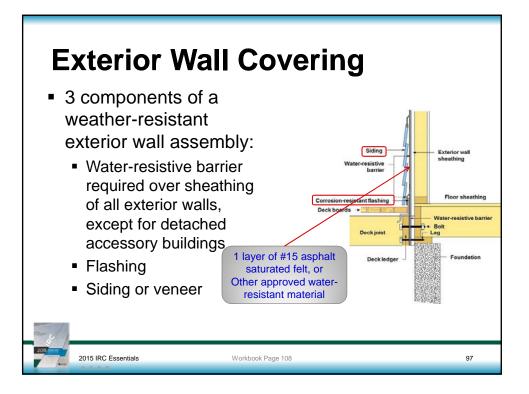


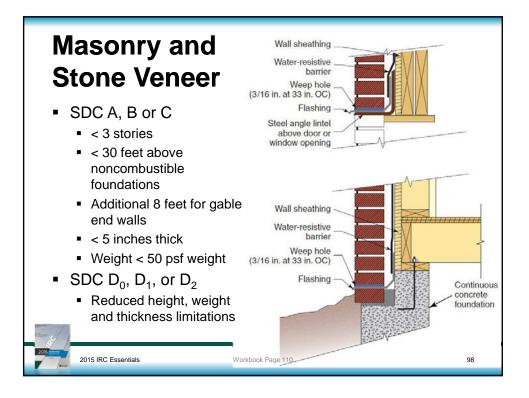


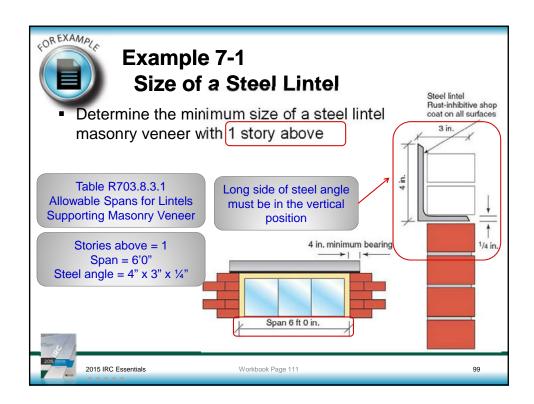


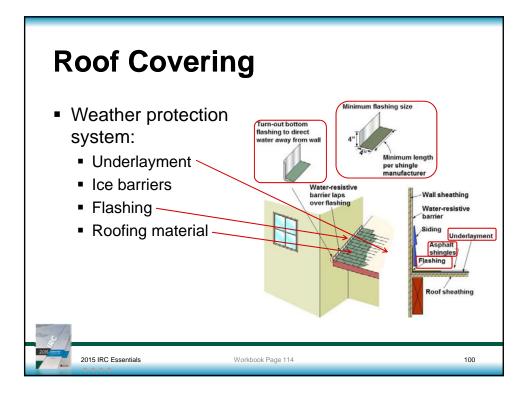


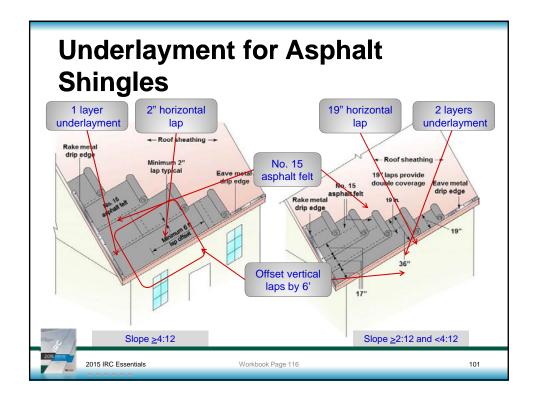


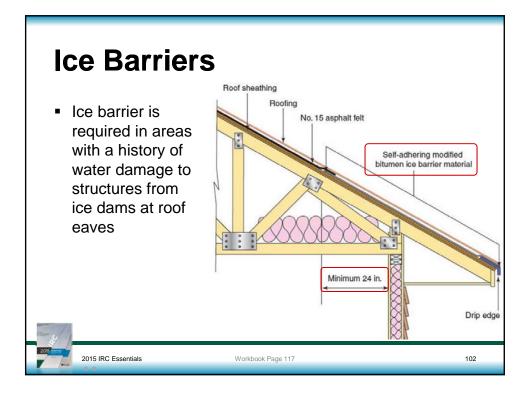


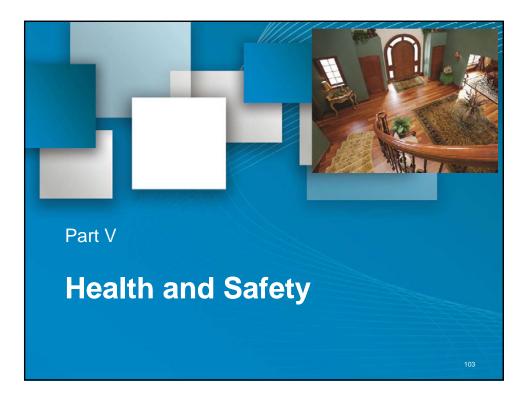


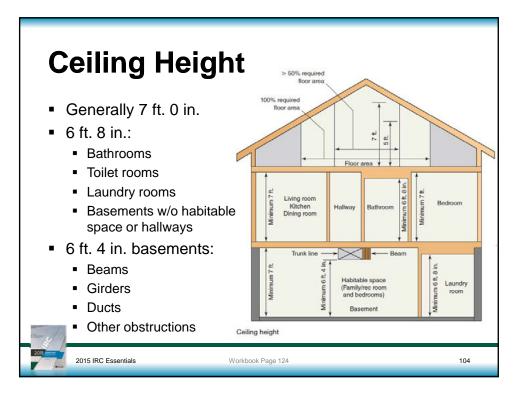


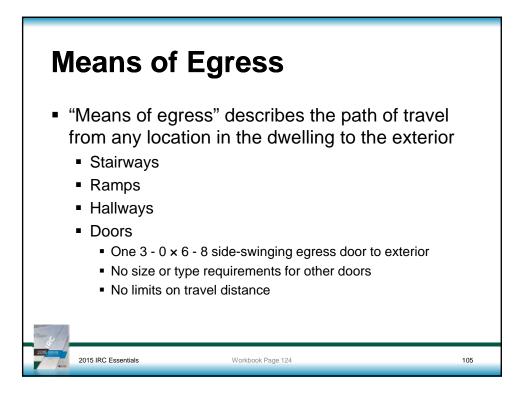


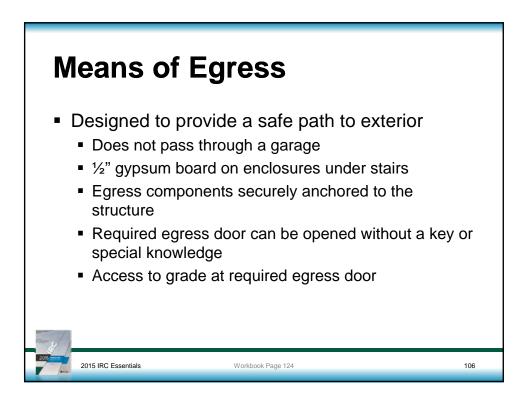


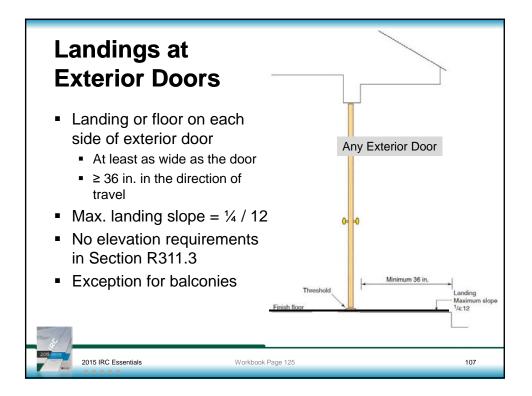


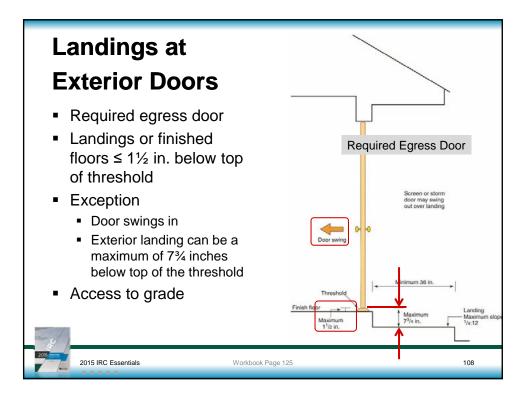


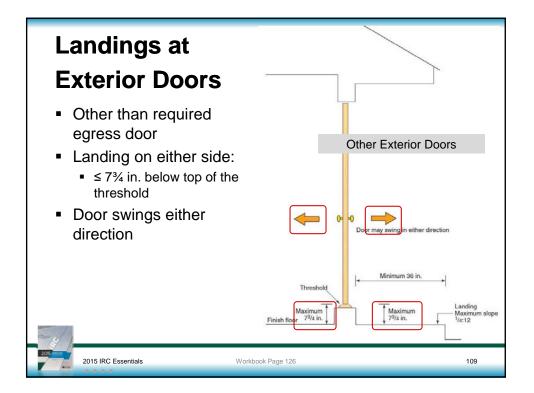


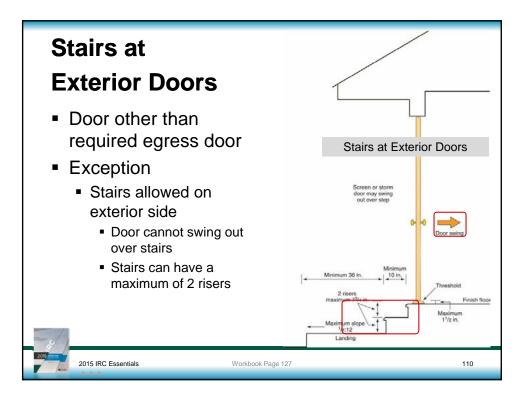


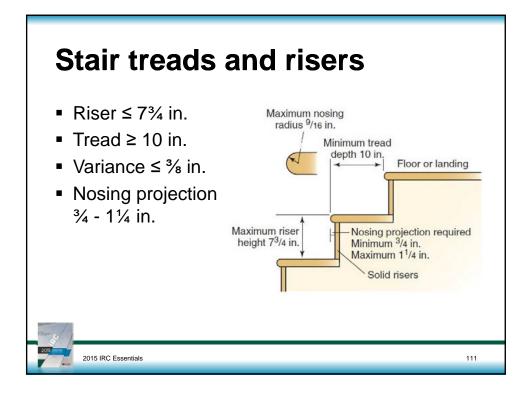


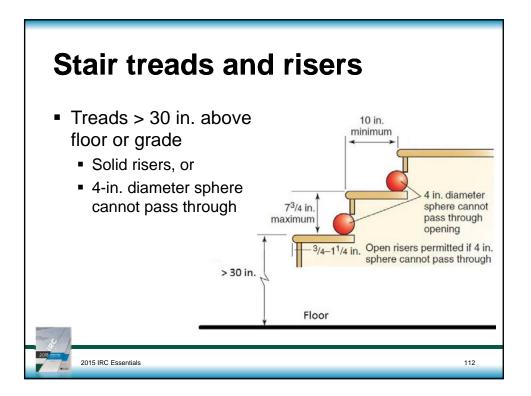


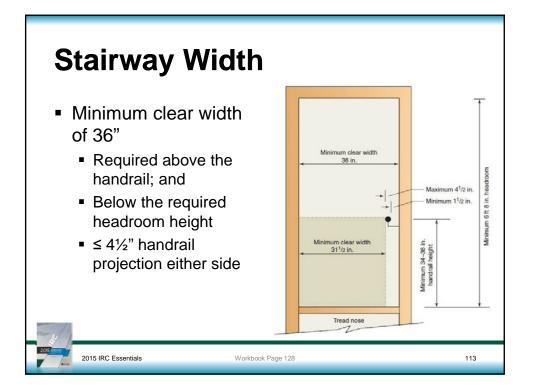


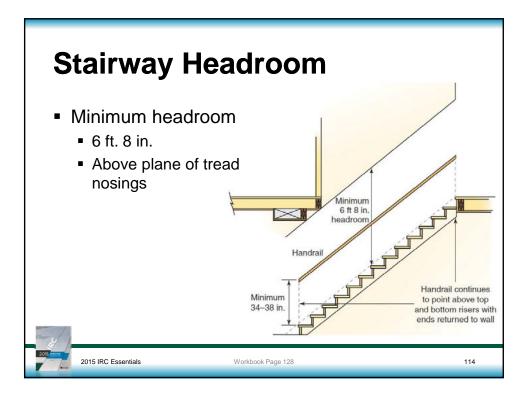


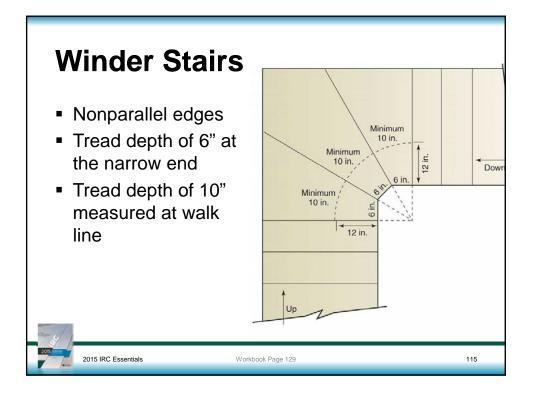


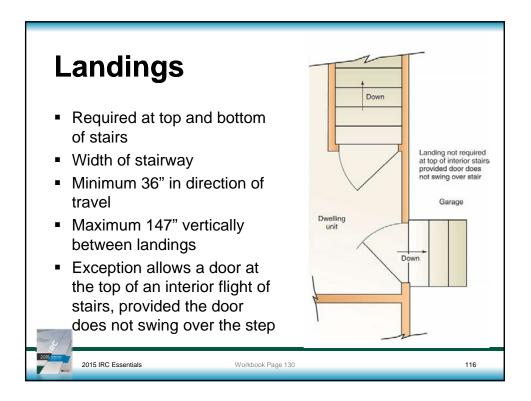


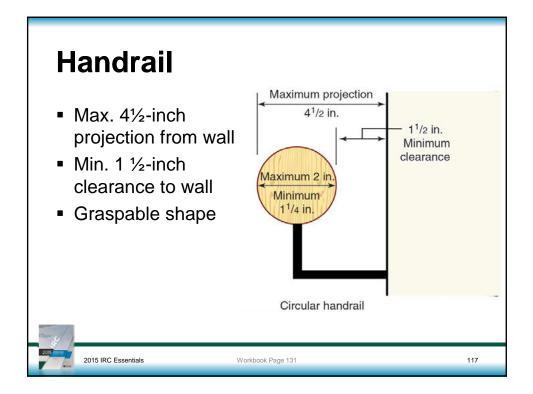


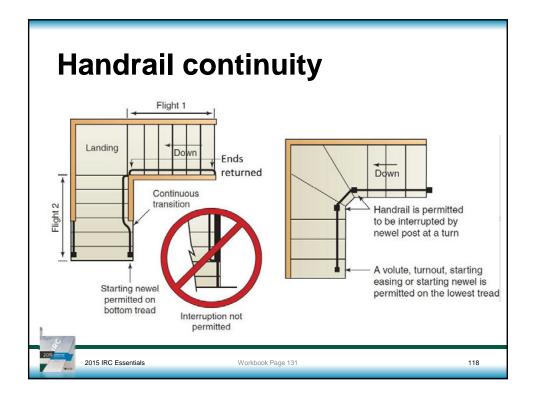


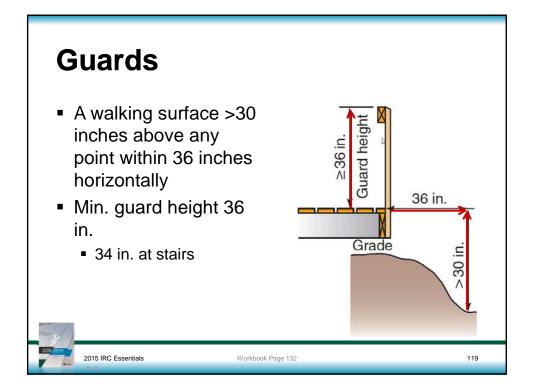


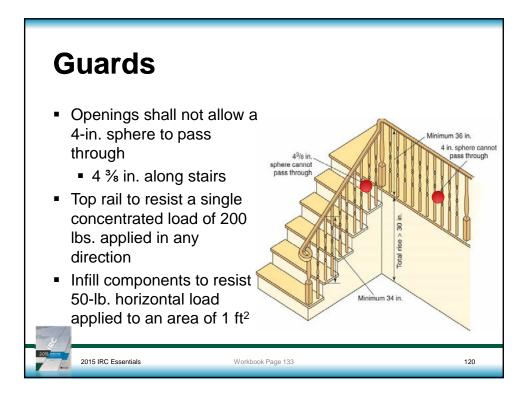


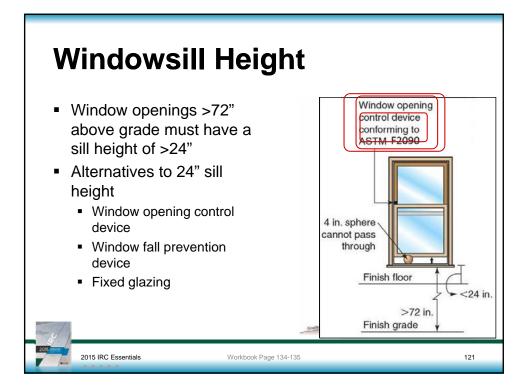


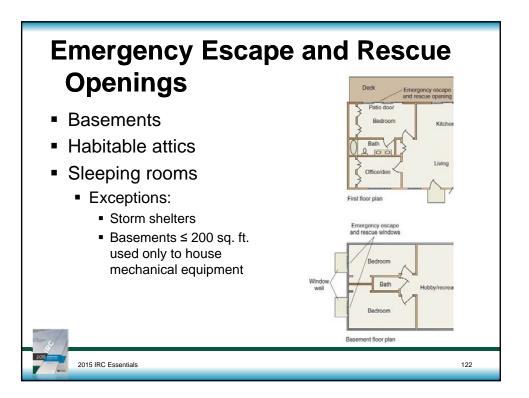


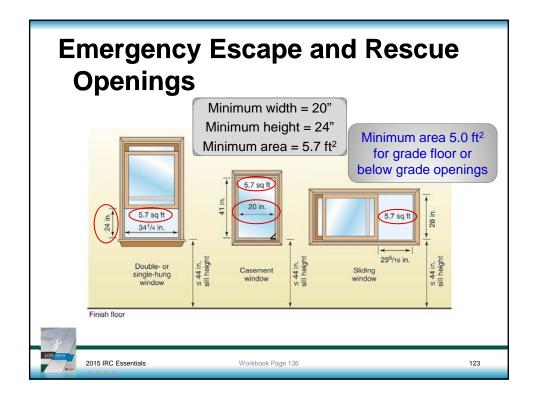


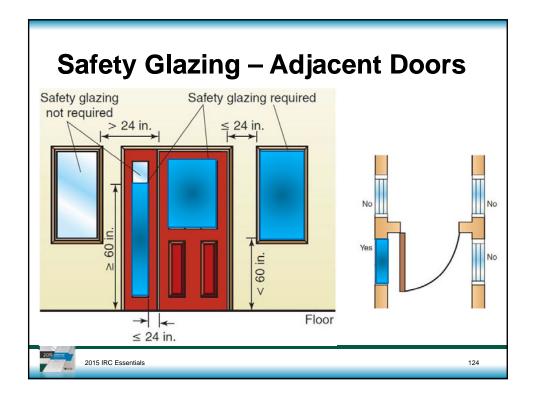


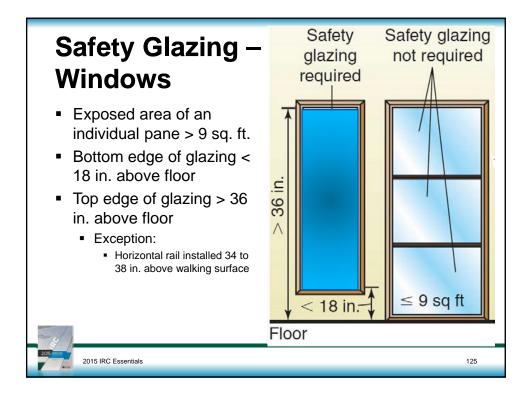


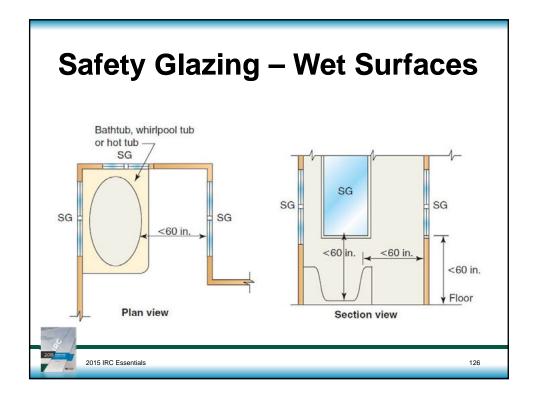


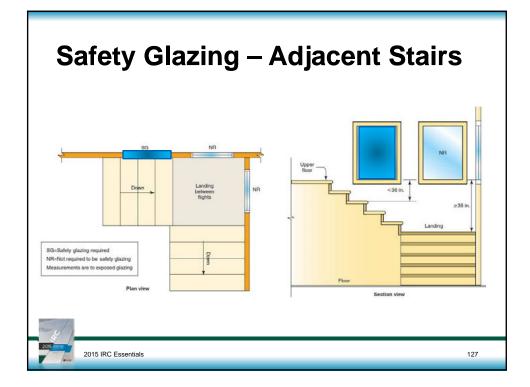


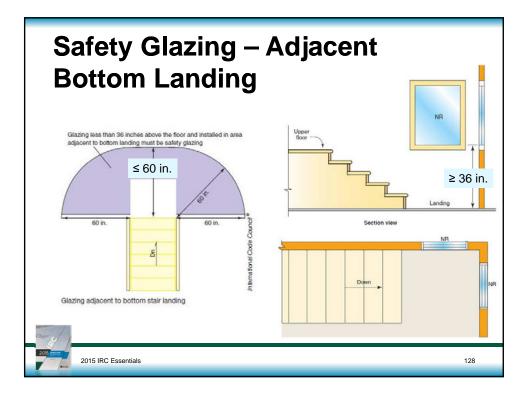


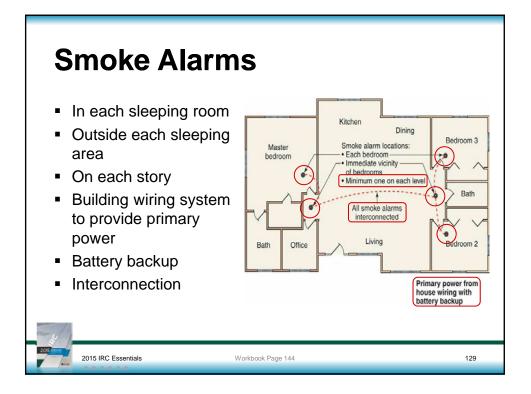


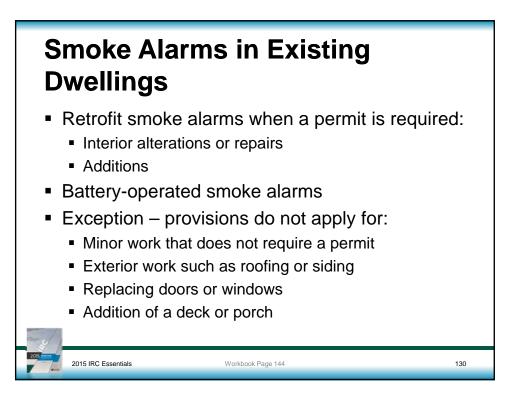




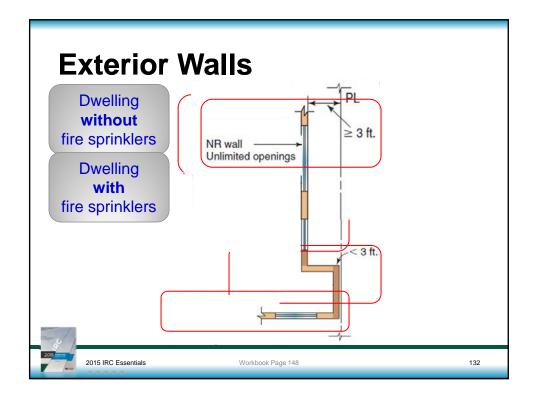


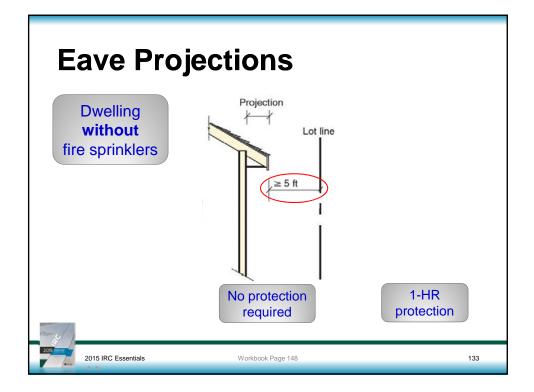


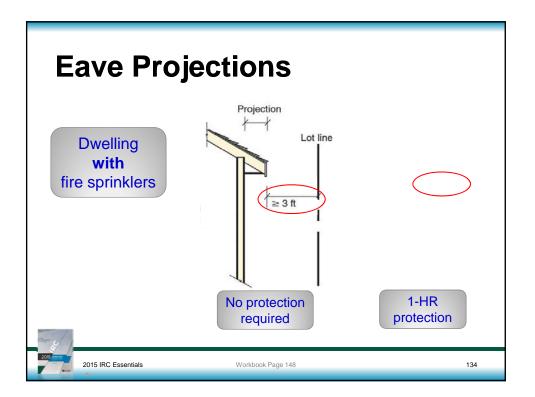


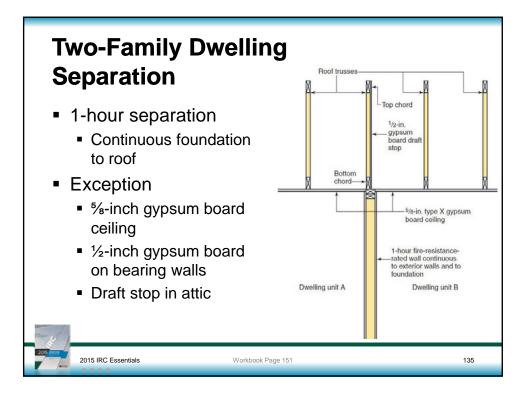


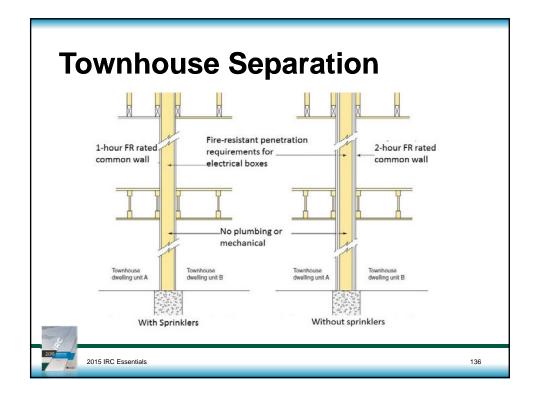


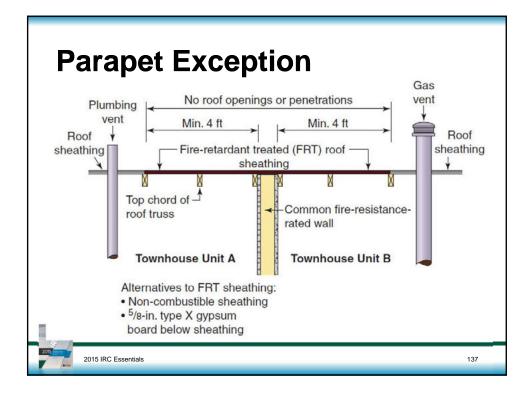


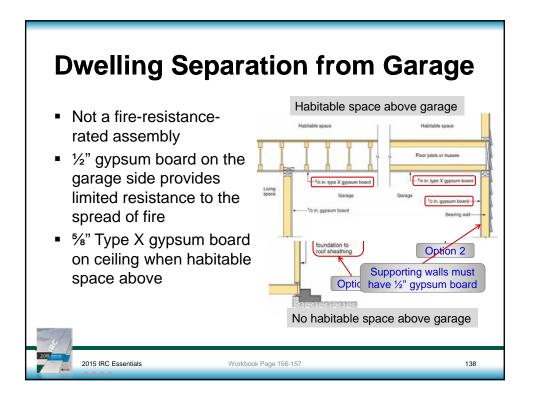


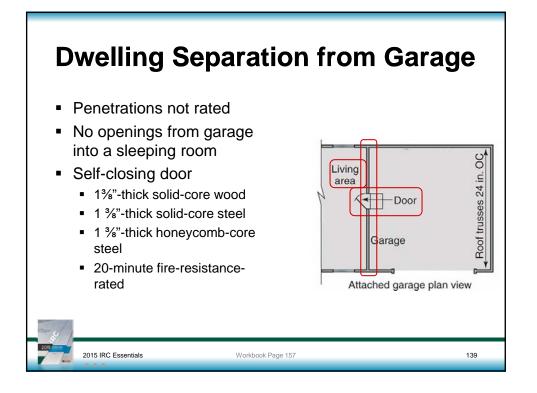


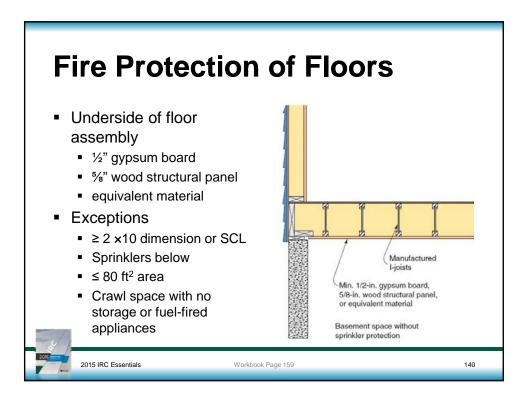


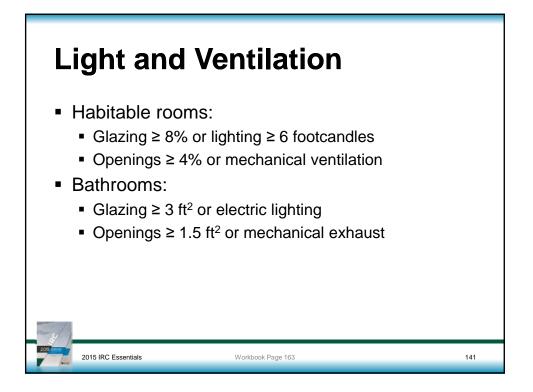


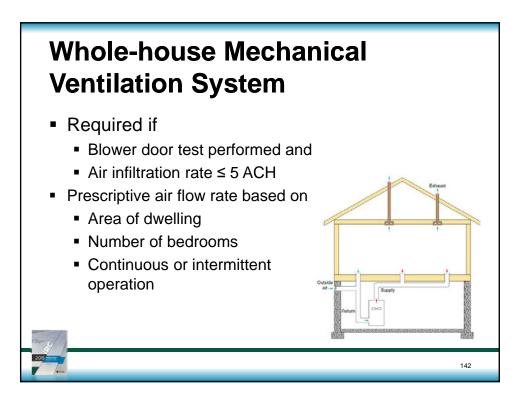


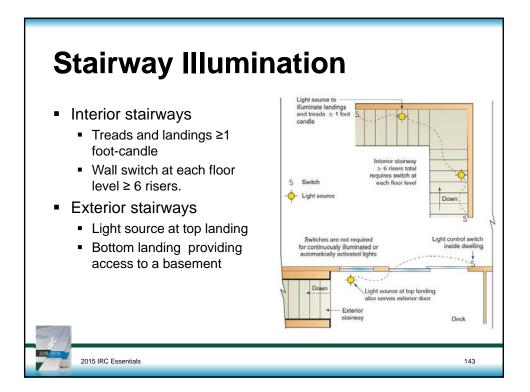


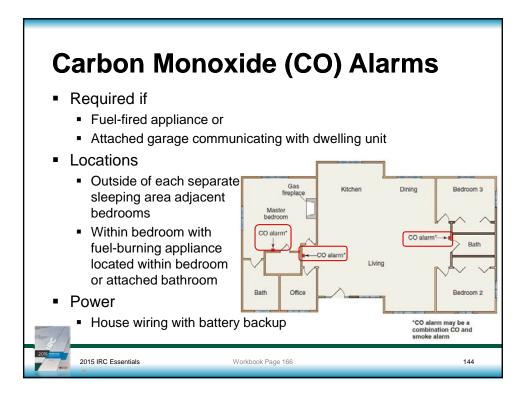


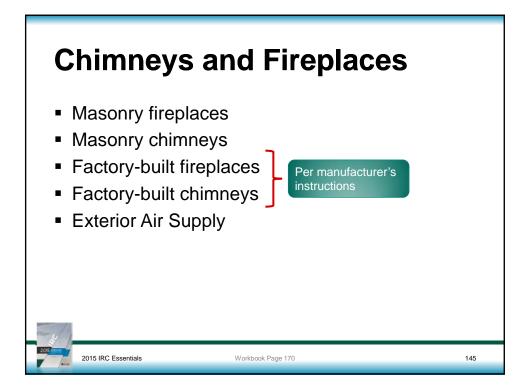


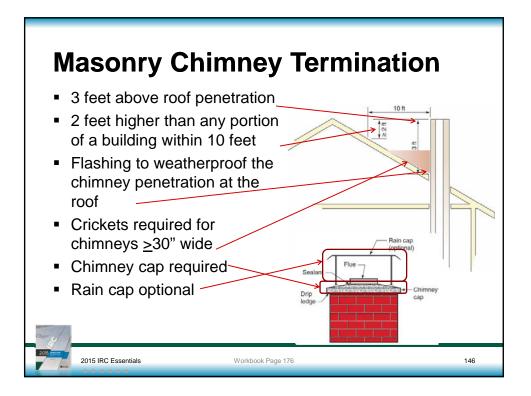


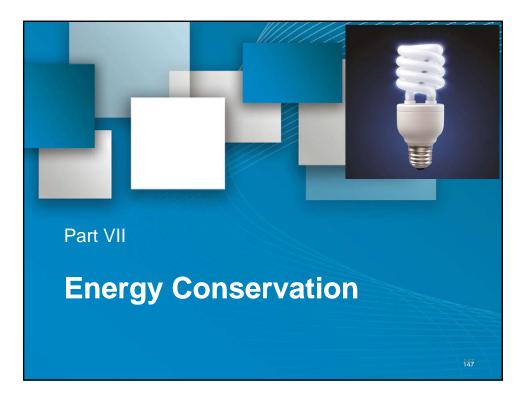


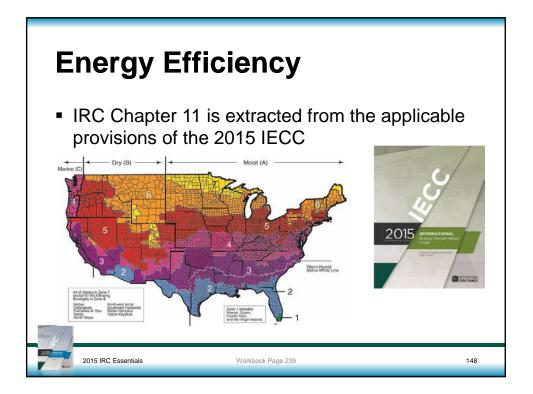


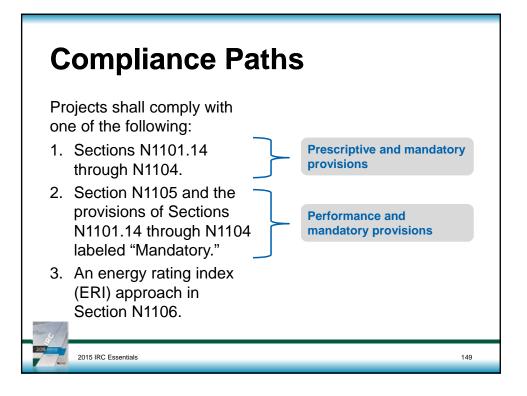


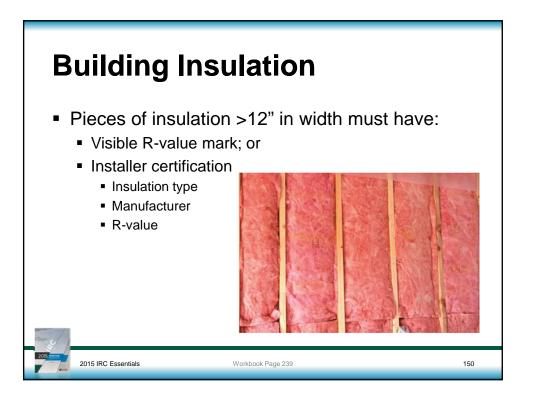


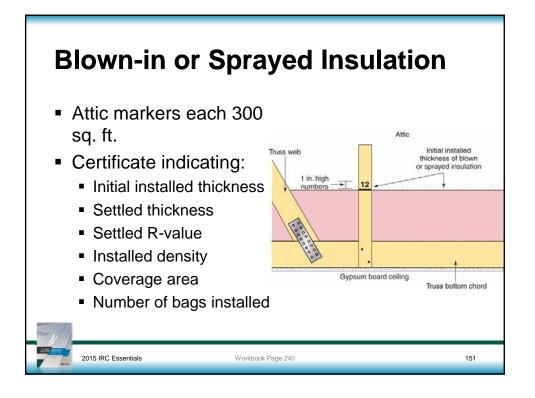


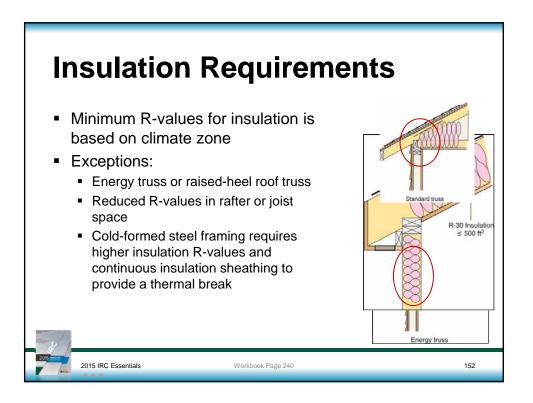


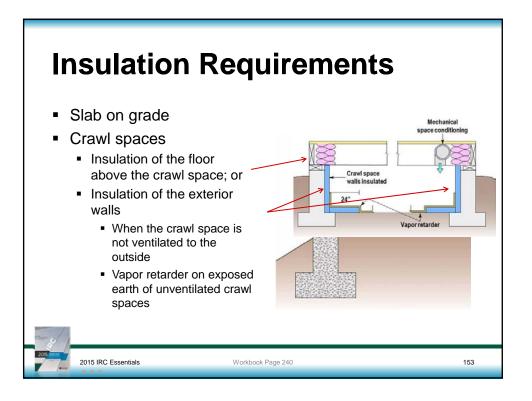


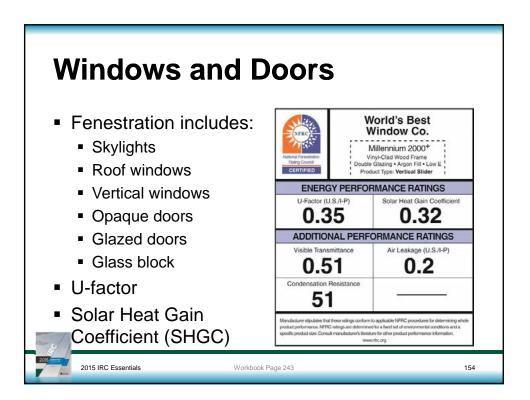


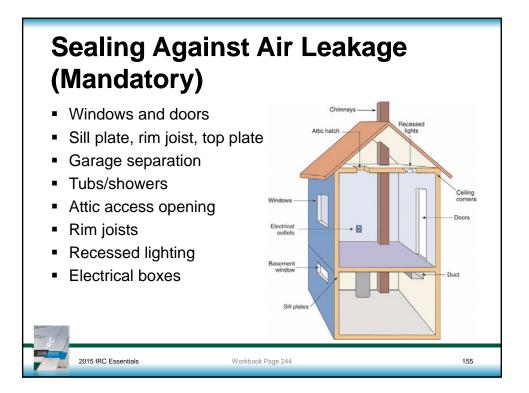


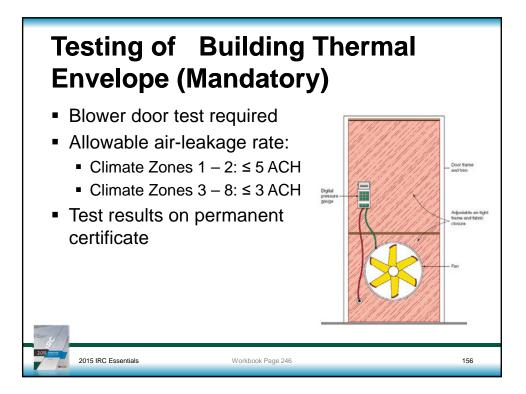


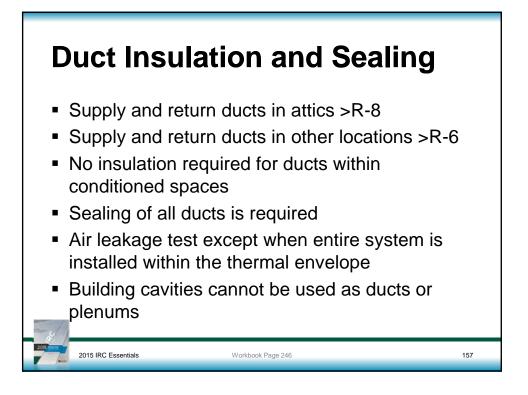


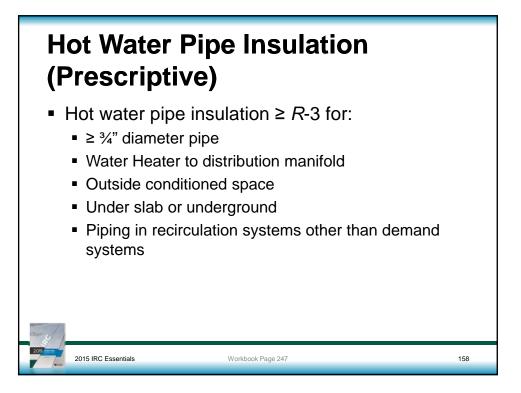


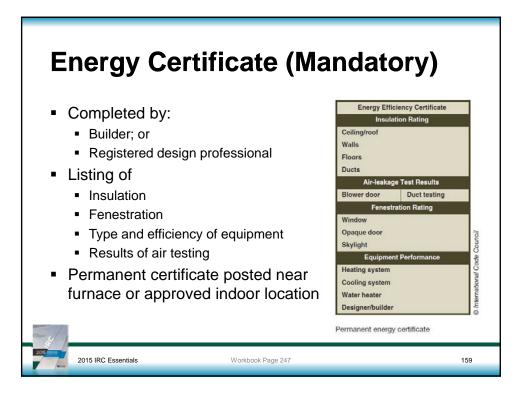


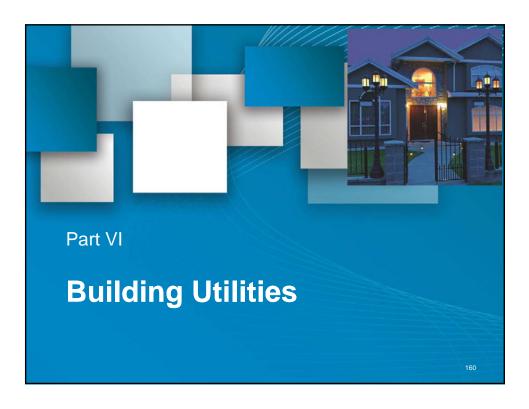


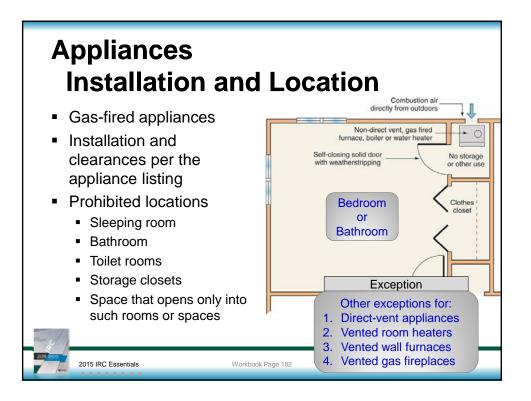


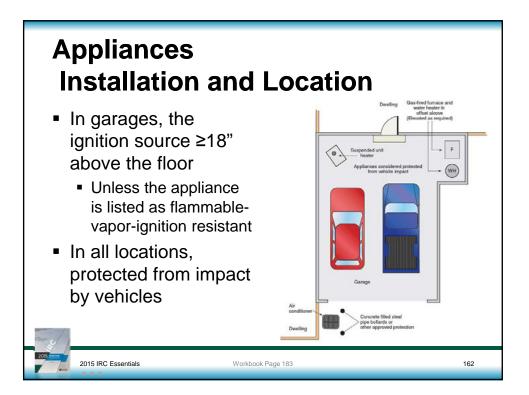


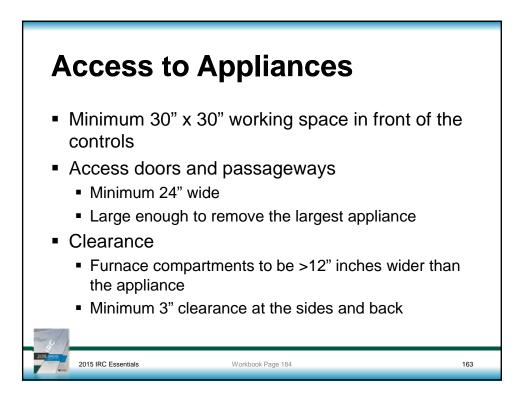


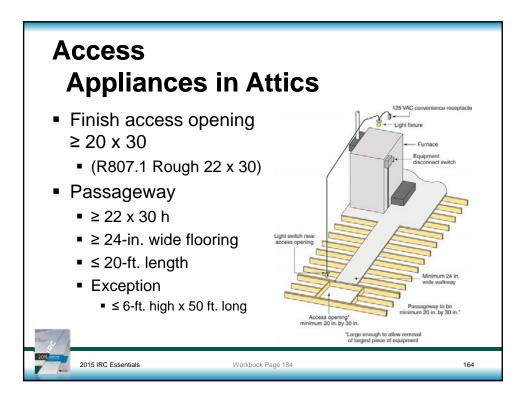


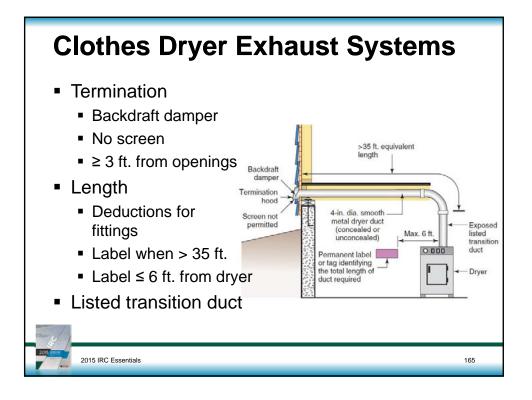


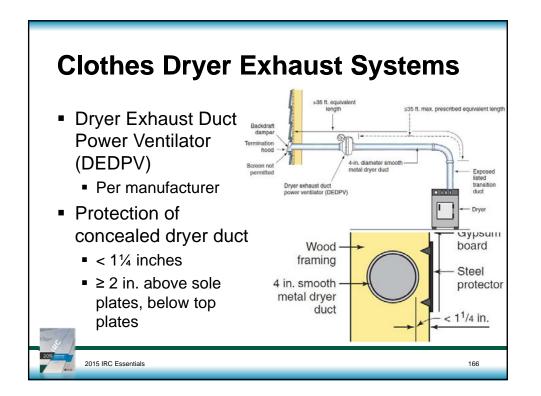


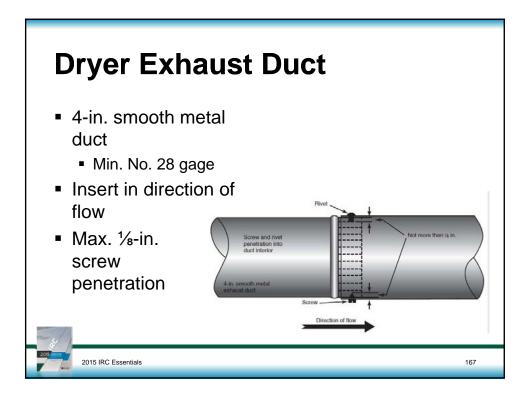


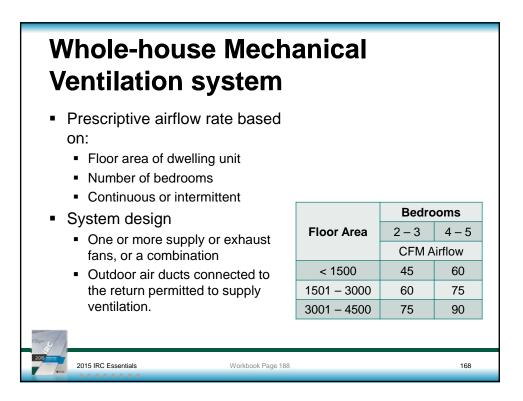


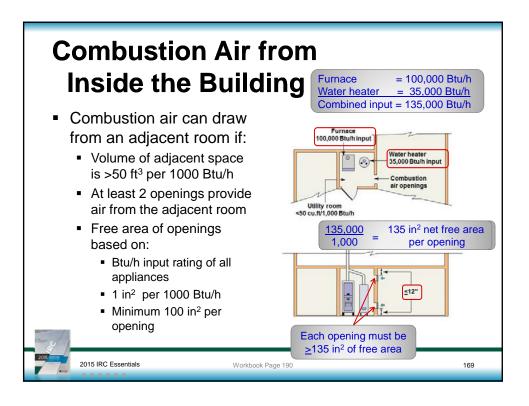


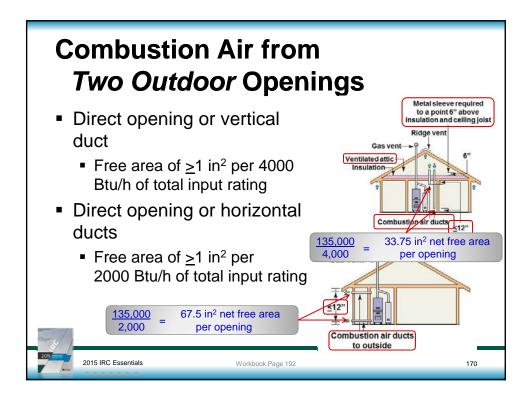


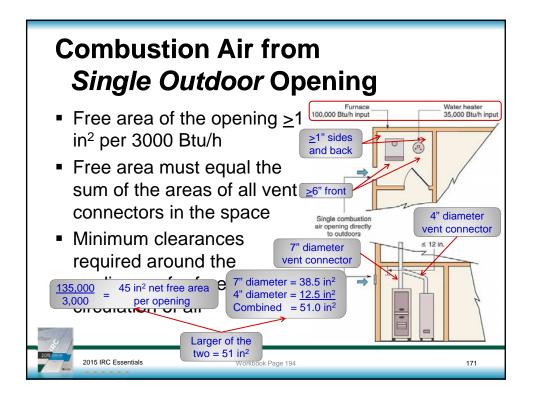


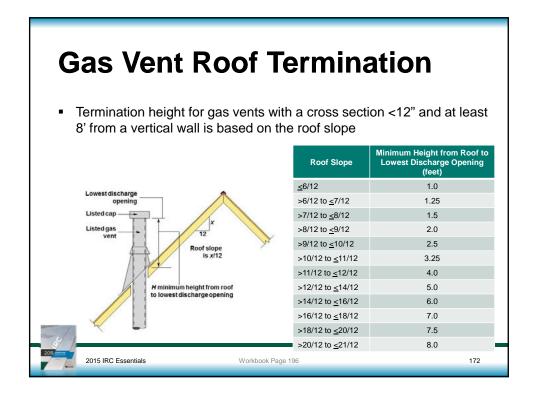


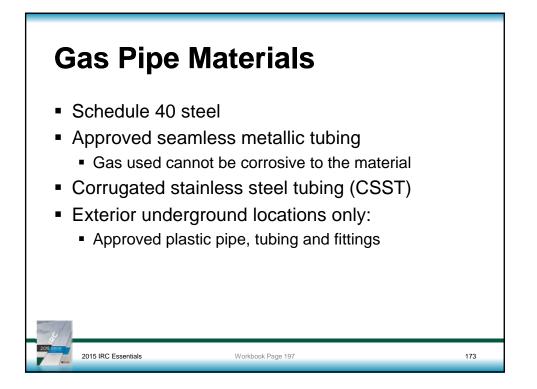


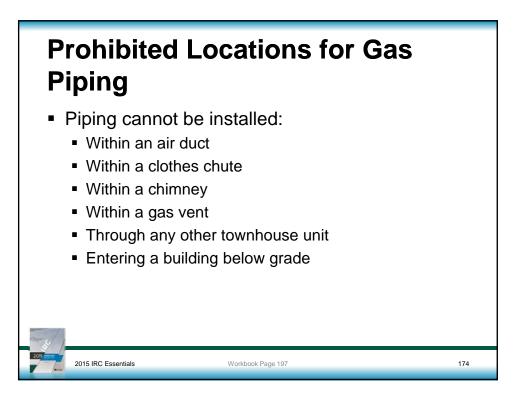


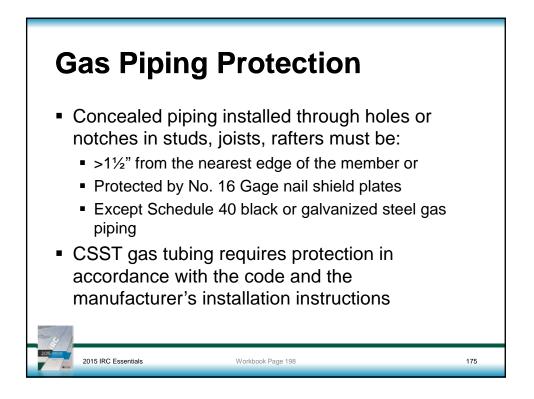


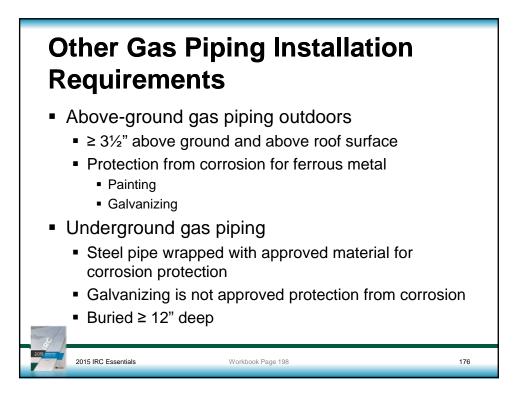


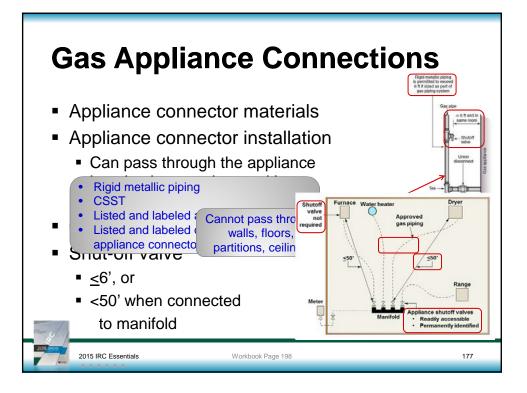


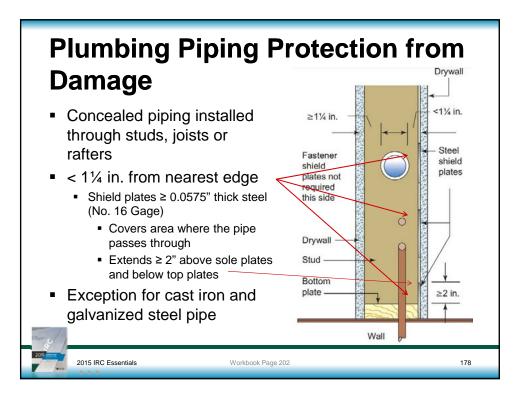


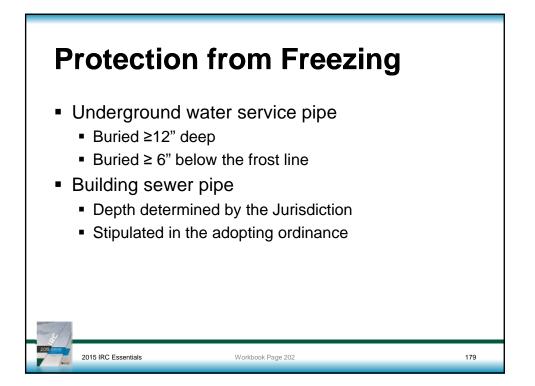


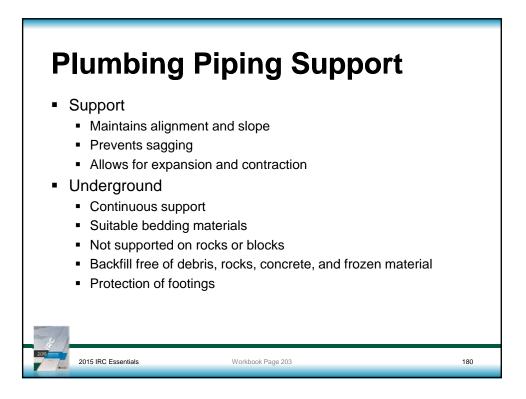








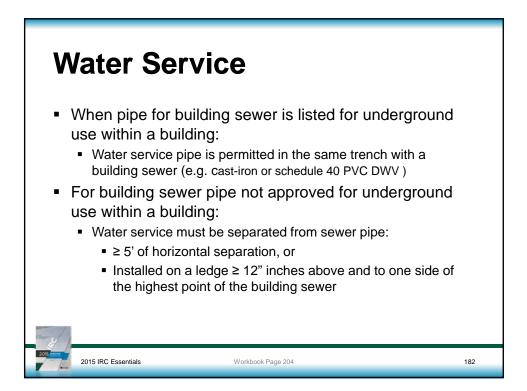


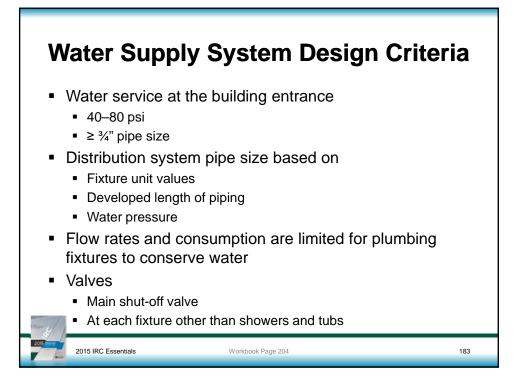


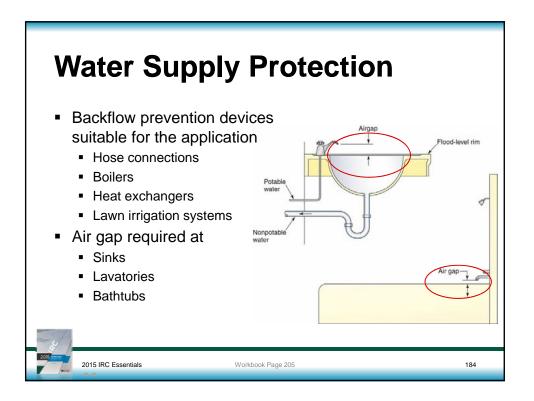
Aboveground Plumbing Piping	
Support	

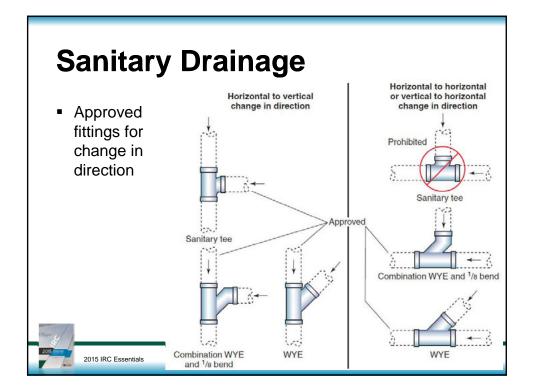
- Horizontal and vertical support spacing based on the pipe material
- A mid-story guide is required for vertical plastic piping ≥ 2-in. diameter

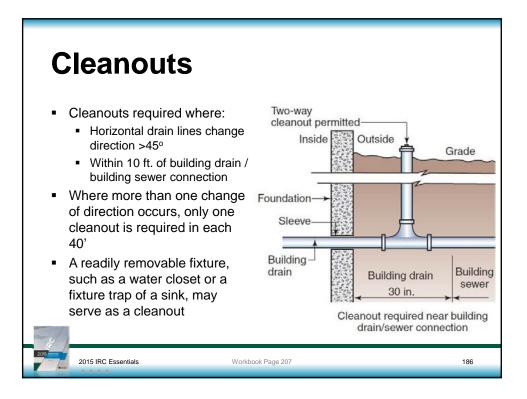
		Piping Material	Maximum Horizontal Spacing (ft)	Maximum Vertical Spacing (ft)
		ABS pipe	4	10
		Cast-iron pipe, <10' lengths	5	15
		Cast-iron pipe, 10' lengths	10	15
		Copper or copper alloy pipe	12	10
		PEX pipe	2.67	10
-01		PVC pipe	4	10
2015	2015 IRC Essential	s Workbook Page	9 203	181

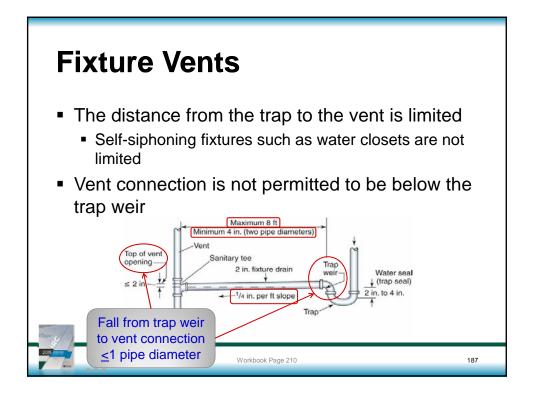


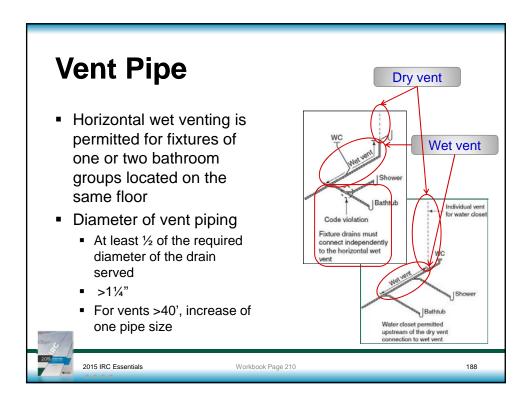


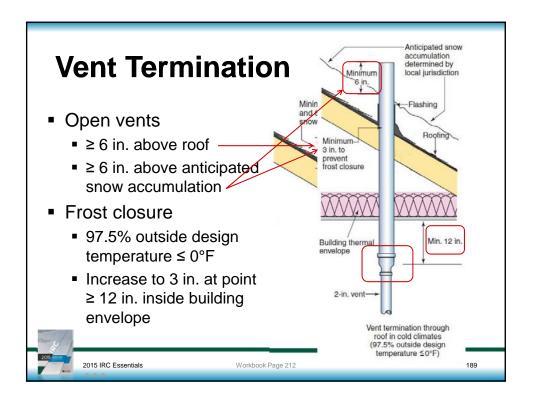


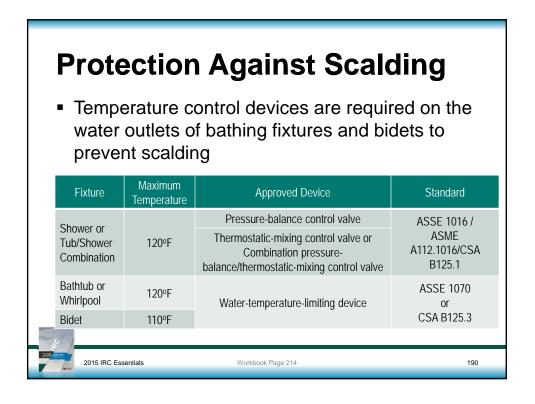


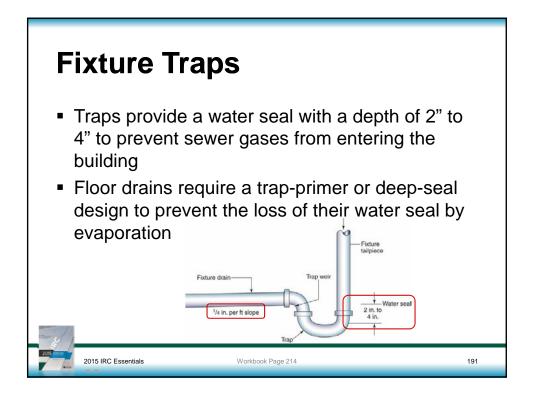


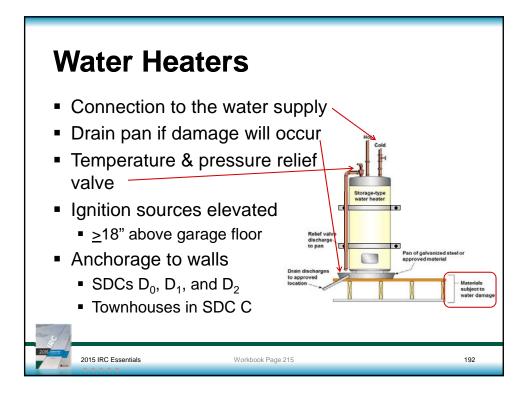


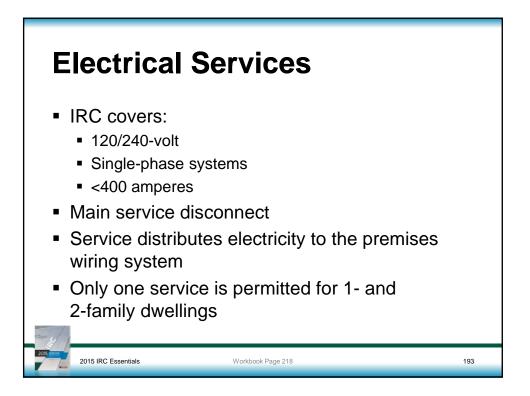


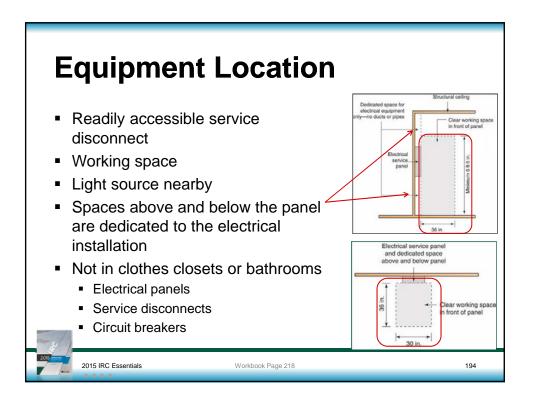


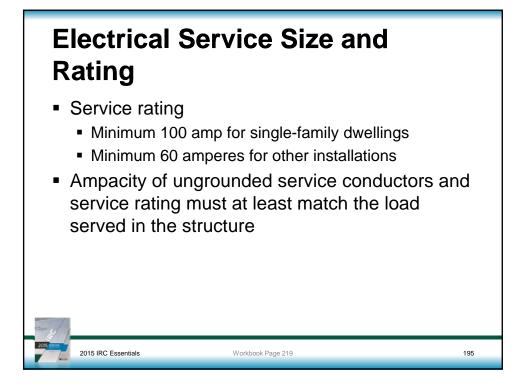


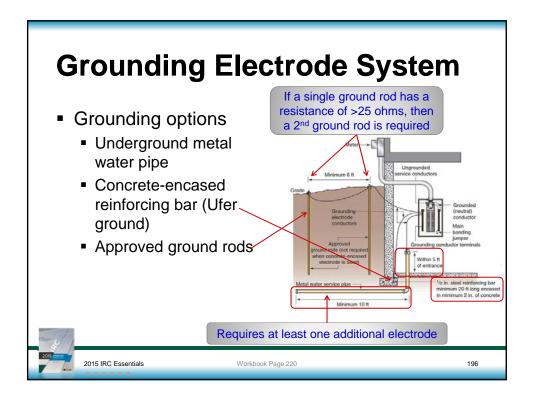


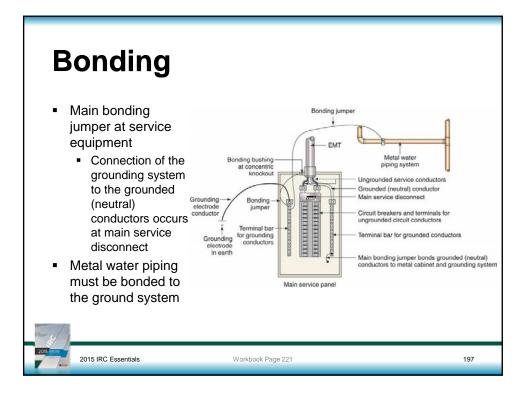












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Temperature ra Conductors Min. size (AWG) circuit conductors (copper) Overcurrent-protection	ating of the termin 15 amp 14	al Circuit Rating 20 amp 12	10
Temperature ra Conductors Min. size (AWG) circuit conductors (copper) Overcurrent-protection device: max. amp rating Duplex or multiple outlet	ating of the termin 15 amp 14 15	al Circuit Rating 20 amp 12 20	10 30

