

## Summary of 2012 and 2015 IEBC Changes<sup>a</sup> Significant<sup>b</sup> in Wisconsin<sup>c</sup> and Comparison With Wisconsin’s Requirements<sup>d</sup>

IEBC Code Section	Description			Comments
	SPS 366 / 2009 IEBC	2012 IEBC Changes	2015 IEBC Changes	
<b>CHAPTER 1 - SCOPE AND ADMINISTRATION</b>				
Chapter 1	366.0101 (4) (a) COMPLIANCE METHOD. (a) The repair, alteration, change of occupancy, addition, or relocation of all existing buildings shall comply with one of the methods listed in par. (b) or (c) as selected by the applicant. Application of a method shall be the sole basis for assessing the compliance of work by the code official. Paragraphs (b) and (c) shall not be applied in combination with each other.			See Chapter 3 comments
Chapter 1	366.0101 (4) (b) Repairs, alterations, additions, changes in occupancy, and relocated buildings complying with the applicable requirements of IEBC chapters 4 through 12 shall be considered in compliance with the provisions of this code.			Change to chapters 5 through 13 to be in accord with IEBC 2015
Chapter 1	366.0101 (4) (c) Repairs, alterations, additions, changes in occupancy, and relocated buildings complying with IEBC chapter 13 shall be considered in compliance with			Change to chapter 14 to be in accord with IEBC 2015

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	the provisions of this code.			
<b>CHAPTER 2 - DEFINITIONS</b>				
202	CHANGE OF OCCUPANCY. A change in the purpose or level of activity within a building that involves a change in application of the requirements of this code.		CHANGE OF OCCUPANCY. A change in the use of the building or a portion of a building. A change of occupancy shall include any change of occupancy classification, any change from one group to another group within an occupancy classification or any change in use within a group for a specific occupancy classification.	
			RELOCATABLE BUILDING. A partially or completely assembled building constructed and designed to be reused multiple times and transported to different building sites.	Definition was added in 2015
	REPAIR. The restoration to good or sound condition of any part of an existing building for the purpose of its maintenance.		REPAIR. The reconstruction or renewal of any part of an existing building for the purpose of its maintenance or to correct damage.	
			REROOFING. The process of recovering or replacing an existing roof covering. See "Roof recover" and "Roof replacement."	Definition was added in 2015
			ROOF RECOVER. The process of installing an additional roof covering over a prepared existing roof covering without removing the existing roof covering.	Definition was added in 2015
			ROOF REPAIR. Reconstruction or renewal of any part of an existing roof for the purposes of its maintenance.	Definition was added in 2015
			ROOF REPLACEMENT. The process of removing the existing roof covering, repairing any damaged substrate and installing a new roof covering.	Definition was added in 2015
	SUBSTANTIAL STRUCTURAL DAMAGE. A condition where:	SUBSTANTIAL STRUCTURAL DAMAGE. A condition where: 1. In any story, the vertical elements of the		

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	1. In any story, the vertical elements of the lateral-force-resisting system have suffered damage such that the lateral load-carrying capacity of the structure in any horizontal direction has been reduced by more than 20 percent from its predamaged condition; or ...	lateral force-resisting system have suffered damage such that the lateral load-carrying capacity of the structure in any horizontal direction has been reduced by more than 33 percent from its predamage condition; or ...		
<b>CHAPTER 3 - PROVISIONS FOR ALL COMPLIANCE METHODS</b>				
Chapter 3		New chapter called “Compliance Methods” is added which gives an overview of the three compliance methods and establishes which chapters of the IECC are applicable to each method as follows: Prescriptive Compliance Method – Ch. 4 Work Area Compliance Method – Chs. 5-13 Performance Compliance Method – Ch. 14	The compliance methods chapter is renamed “Provisions for all Compliance Methods”	The description of the three methods is essentially the same language that was previously in IEBC sections 101.5.1 – 101.5.3
<b>CHAPTER 4 - PRESCRIPTIVE COMPLIANCE METHOD</b>				
Chapter 4 410	SPS 366.0300 should be renumbered 366.0400 and should reference IEBC chapter 4 and section 410			
Chapter 4	Wisconsin does not allow the IEBC Prescriptive compliance method			Wisconsin’s existing building code is more restrictive than the IEBC since it does not accept this method – should this be revisited?
<b>CHAPTER 5 - CLASSIFICATION OF WORK</b>				
505.1	<b>405.1 Scope.</b> Level 3 <i>alterations</i> apply where the <i>work area</i> exceeds 50 percent of the aggregate area of the building.		<b>505.1 Scope.</b> Level 3 <i>alterations</i> apply where the work area exceeds 50 percent of the <i>building area</i> .	2015 IBC definition: AREA, BUILDING. The area included within surrounding <i>exterior walls</i> (or <i>exterior walls</i> and <i>fire walls</i> ) exclusive

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				of vent <i>shafts</i> and <i>courts</i> . Areas of the building not provided with surrounding walls shall be included in the building area if such areas are included within the horizontal projection of the roof or floor above.
CHAPTER 6 - REPAIRS				
Chapter 6	SPS 366.0500 should be renumbered 366.0600 and should reference IEBC chapter 6			
601.1	<b>501.1 Scope.</b> Repairs as described in Section 402 shall comply with the requirements of this chapter. Repairs to historic buildings shall comply with this chapter, except as modified in Chapter 11.	<b>601.1 Scope.</b> Repairs as described in Section 502 shall comply with the requirements of this chapter. Repairs to <i>historic buildings</i> need only comply with Chapter 12.		Chapter 6 no longer applies to repair of historic buildings
603	SPS 366.0503 should be renumbered 366.0603 and should reference IEBC section 603			
606.2.2		<b>606.2.2 Substantial structural damage to vertical elements of the lateral force-resisting system.</b> - New exception added - 1. Buildings assigned to Seismic Design Category A, B, or C whose substantial structural damage was not caused by earthquake need not be evaluated or rehabilitated for load combinations that include earthquake effects.		

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606.2 606.2.5	SPS 366.0506 should be renumbered 366.0606 and should reference IEBC sections 606.2 and 606.2.5			
606.2.3.1		<b>606.2.3.1 Lateral force-resisting elements.</b> - New exception added - 1. Buildings assigned to Seismic Design Category A, B, or C whose substantial structural damage was not caused by earthquake need not be evaluated or rehabilitated for load combinations that include earthquake effects.		
609	SPS 366.0509 should be renumbered 366.0609 and should reference IEBC section 609			
<b>CHAPTER 7 - ALTERATIONS - LEVEL 1</b>				
702.4	SPS 366.0602 should be renumbered 366.0702 and should reference IEBC section 707.1			
702.4			Window opening control devices meeting ASTM F 2090 are allowed where openings present a falling hazard for 1 to 5 year olds.	See current language in 2015 IEBC
702.5			Exempts replacement windows from requirements of IBC 1030.2, 1030.3, and 1030.5, provided the replacement window is the manufacturer's largest standard size window that will fit within the existing frame or existing rough opening.	
702.5			Window opening control devices meeting ASTM F 2090 shall be permitted for emergency escape windows.	
704	SPS 366.0604 should be renumbered 366.0704 and should reference IEBC section 704			
705.1	SPS 366.0605 should be		SPS 366.0605 (1) adopted the language of	

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	renumbered 366.0705 and should reference IEBC section 705.1		section 410.2.1 of the 2009 ICC/ANSI A117.1, which is now incorporated by reference in the 2015 IEBC. This subsection can now be eliminated.	
705.1	SPS 366.0605 (2) reads: Substitute the following wording for the requirements in ICC/ANSI A117.1 section 410.5 as referenced by IEBC section 605.1: Clear floor space of platform lifts shall comply with one of the following: (a) Platforms <b>lifts with a single door or with doors on opposite ends</b> shall provide a clear floor width of 36 inches minimum and a clear floor depth of 54 inches minimum. (b) Platform <b>lifts with doors on adjacent sides</b> shall provide a clear floor width of 36 inches minimum and clear floor depth of 60 minimum.	2009 ICC/ANSI A117.1 section 410.5 reads: 410.5 Clear Floor Space. Clear floor space of platform lifts shall comply with Section 410.5. 410.5.1 Lifts with Single Door or Doors on Opposite Ends. Platform <b>lifts with a single door or with doors on opposite ends</b> shall provide a clear floor width of 36 inches (915 mm) minimum and a clear floor depth of 48 inches (1220 mm) minimum. 410.5.2 Lifts with Doors on Adjacent Sides. Platform lifts with doors on adjacent sides shall provide a clear floor width of 42 inches (1065 mm) minimum and a clear floor depth of 60 inches (1525 mm) minimum. EXCEPTION: In <u>existing buildings</u> , platform <b>lifts with doors on adjacent sides</b> shall be permitted to provide a clear floor width of 36 inches (915 mm) and a clear floor depth of 60 inches (1525 mm).		Wisconsin is more restrictive than A117.1 with respect to lifts with a single door or with doors on opposite ends.
Section 706			A new section has been added to the IEBC which specifically addresses requirements for reroofing projects.	
707.1	SPS 366.0607 should be renumbered 366.0707 and should reference IEBC section 707.1		The language currently in SPS 366.0607 was taken directly from the 2012 IECC. The portion of the IECC dealing with energy conservation for additions, alterations, renovations, or repairs in 2012 IECC (C101.4.3) has been expanded in the 2015 IECC to an entire chapter. SPS 366.0607 should be eliminated and replaced with a reference directing persons to that specific	

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CHAPTER 8 - ALTERATIONS - LEVEL 2			chapter of the 2015 IECC.	
803.3		<p>2009 IEBC and 2012 IEBC read:</p> <p><b>803.3 Smoke barriers.</b> Smoke barriers in Group I-2 occupancies shall be installed where required by Sections 803.3. 1 and 803.3.2.</p> <p><b>803.3.1 Compartmentation.</b> Where the work area is on a story used for sleeping rooms for more than 30 patients, the story shall be divided into not less than two compartments by smoke barrier walls complying with Section 803.3.2 such that each compartment does not exceed 22,500 square feet (2093 m2), and the travel distance from any point to reach a door in the required smoke barrier shall not exceed 200 feet (60 960 mm).</p> <p><b>Exception:</b> Where neither the length nor the width of the smoke compartment exceeds 150 feet (45 720 mm), the travel distance to reach the smoke barrier door shall not be limited.</p> <p><b>803.3.2 Fire-resistance rating.</b> The smoke barriers shall be fire-resistance rated for 30 minutes and constructed in accordance with the International Building Code.</p>	<p>2015 IEBC changed to read:</p> <p><b>803.3 Smoke compartments.</b> In Group I-2 occupancies where the work area is on a story used for sleeping rooms for more than 30 patients, the story shall be divided into not less than two compartments by smoke barrier walls in accordance with Section 407.5 of the International Building Code as required for new construction.</p>	
803.6			<p>New section added:</p> <p><b>803.6 Fire-resistance ratings.</b> Where approved by the code official, buildings where an automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2 of the International Building Code has been added, and the building is now sprinklered throughout, the required fire-resistance ratings of building elements and materials shall be permitted to meet the requirements of the current building code. The</p>	

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			building is required to meet the other applicable requirements of the <i>International Building Code</i> . Plans, investigation and evaluation reports, and other data shall be submitted indicating which building elements and materials the applicant is requesting the code official to review and approve for determination of applying the current building code fire-resistance ratings. Any special construction features, including fire-resistance-rated assemblies and smoke-resistive assemblies, conditions of occupancy, means-of-egress conditions, fire code deficiencies, approved modifications or approved alternative materials, design and methods of construction, and equipment applying to the building that impact required fire-resistance ratings shall be identified in the evaluation reports submitted.	
804.2	SPS 366.0704 should be renumbered 366.0804 and should reference IEBC section 804.2			
804.2.2	See next column	2009 IEBC reads: <b>704.2.2 Groups A, B, E, F-1, H, I, M, R-1, R-2, R-4, S-1 and S-2.</b> In buildings with occupancies in Groups A, B, E, F-1, H, I, M, R-1, R-2, R-4, S-1 and S-2, work areas that have exits or corridors shared by more than one tenant or that have exits or corridors serving an occupant load greater than 30 shall be provided with automatic sprinkler protection where all of the following conditions occur: <b>1.</b> The <i>work area</i> is required to be provided with automatic sprinkler protection in accordance with the <i>International Building Code</i> as applicable to new construction; <b>2.</b> The work area exceeds 50 percent of the floor area; and	2012 and 2015 IEBC read: <b>804.2.2 Groups A, B, E, F-1, H, I, M, R-1, R-2, R-4, S-1 and S-2.</b> In buildings with occupancies in Groups A, B, E, F-1, H, I, M, R-1, R-2, R-4, S-1 and S-2, work areas that have exits or corridors shared by more than one tenant or that have exits or corridors serving an occupant load greater than 30 shall be provided with automatic sprinkler protection where all of the following conditions occur: <b>1.</b> The <i>work area</i> is required to be provided with automatic sprinkler protection in accordance with the <i>International Building Code</i> as applicable to new construction; and <b>2.</b> The <i>work area</i> exceeds 50 percent of the floor area.	

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		<p><b>3.</b> The building has sufficient municipal water supply for design of a fire sprinkler system available to the floor without installation of a new fire pump.</p>	<p><b>Exceptions:</b></p> <ol style="list-style-type: none"> <li>1. Work areas in Group R occupancies three stories or less in height.</li> <li>2. If the building does not have sufficient municipal water supply for design of a fire sprinkler system available to the floor without installation of a new fire pump, work areas shall be protected by an automatic smoke detection system throughout all occupiable spaces other than sleeping units or individual dwelling units that activates the occupant notification system in accordance with Sections 907.4, 907.5 and 907.6 of the <i>International Building Code</i>.</li> </ol>	
805.4.5		<p><b>805.4.5 Emergency power source in Group 1-3.</b> Work areas in buildings of Group I-3 occupancy having remote power unlocking capability for more than 10 Jocks shall be provided with an emergency power source for such locks. Power shall be arranged to operate automatically upon failure of normal power within 10 seconds and for a duration of not less than 1 hour.</p>	<p><b>805.4.5 Emergency power source in Group I-3.</b> Power operated sliding doors or power-operated locks for swinging doors shall be operable by a manual release mechanism at the door. Emergency power shall be provided for the doors and locks in accordance with Section 2702 of the International Building Code.</p> <p><b>Exceptions:</b></p> <ol style="list-style-type: none"> <li>1. Emergency power is not required in facilities with 10 or fewer locks complying with the exception to Section 408.4.1 of the International Building Code.</li> <li>2. Emergency power is not required where remote mechanical operating releases are provided.</li> </ol>	
807.5			Some changes made to provisions regulating existing structural elements resisting lateral loads.	
809.1 809.2	SPS 366.0709 should be renumbered 366.0809 and should reference IEBC section			

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	809.1 and 809.2			
810.1	SPS 366.0710 should be renumbered 366.0810 and should reference IEBC section 810.1			
811	SPS 366.0711 should be renumbered 366.0811 and should reference IEBC section 811			
<b>CHAPTER 9 - ALTERATIONS - LEVEL 3</b>				
902.2		<p>2009 and 2012 IEBC read:  <b>902.2 Boiler and furnace equipment rooms.</b>            Boiler and furnace equipment rooms adjacent to or within the following facilities shall be enclosed by 1-hour fire-resistance-rated construction: day nurseries, children's shelter facilities, residential childcare facilities, and similar facilities with children below the age of 2 1/2 years or that are classified as Group I-2 occupancies, shelter facilities, residences for the developmentally disabled, group homes, teaching family homes, transitional living homes, rooming and boarding houses, hotels, and multiple dwellings.</p> <p><b>Exceptions:</b></p> <ol style="list-style-type: none"> <li>1. Furnace and boiler equipment of low-pressure type, operating at pressures of 15 pounds per square inch gauge (psig) (103.4 KPa) or less for steam equipment or 170 psig ( 1171 KPa) or less for hot water equipment, when installed in accordance with manufacturer recommendations.</li> <li>2. Furnace and boiler equipment of residential R-3 type with 200,000 British thermal units (Btu) (2.11 x 108 J) per hour input rating or less is not required to be enclosed.</li> </ol>	<p>2015 IEBC reads:  <b>902.2 Boiler and furnace equipment rooms.</b>            Boiler and furnace equipment rooms adjacent to or within Groups I-1, I-2, I-4, R-1, R-2 and R-4 occupancies shall be enclosed by 1-hour fire-resistance-rated construction.</p> <p><b>Exceptions:</b></p> <ol style="list-style-type: none"> <li>1. Steam boiler equipment operating at pressures of 15 pounds per square inch gauge (psig) (103.4 KPa) or less is not required to be enclosed.</li> <li>2. Hot water boilers operating at pressures of 170 psig (1171 KPa) or less are not required to be enclosed.</li> <li>3. Furnace and boiler equipment with 400,000 British thermal units (Btu) (4.22 × 108 J) per hour input rating or less is not required to be enclosed.</li> <li>4. Furnace rooms protected with an automatic sprinkler system are not required to be enclosed.</li> </ol>	

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		3. Furnace rooms protected with automatic sprinkler protection.		
902.2.1	SPS 366.0802 should be renumbered 366.0902 and should reference IEBC section 902.2.1			Section on emergency controls has been removed from IEBC, Wisconsinism can be eliminated
904.1 & 904.1.1			Some changes to automatic sprinkler system requirements for high rise buildings	
904.1.3			Some changes to fire sprinkler requirements related to upholstered furniture or mattresses.	
907.4.3 907.4.4 907.4.5		Some changes to structural requirements.	Further revisions to structural requirements.	
908.1	SPS 366.0808 should be renumbered 366.0908 and should reference IEBC section 908.1			
909	SPS 366.0809 should be renumbered 366.0909 and should reference IEBC chapter 9			

CHAPTER 10 - CHANGE OF OCCUPANCY

1001	SPS 366.0901 should be renumbered 366.1001 and should reference IEBC chapter 10 sections			
1011	SPS 366.0911 should be renumbered 366.1011 and should reference IEBC section 1011			
1012.1	SPS 366.0912 should be renumbered 366.1012 (1) and should reference IEBC section 1010			
1012.2	SPS 366.0901 (4) should be			

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	renumbered 366.1012 (2) and should reference IEBC section 1012.2			
<b>CHAPTER 11 - ADDITIONS</b>				
1102.3	SPS 366.1002 should be renumbered 366.1102 and should reference IEBC section 1102.3			
<b>CHAPTER 12 - HISTORIC BUILDINGS</b>				
1201.1 1201.2	SPS 366.1101 should be renumbered 366.1201 and should reference IEBC sections 1201.1 and 1201.2			
1205	SPS 366.1105 should be renumbered 366.1205 and should reference IEBC section 1205			
<b>CHAPTER 13 - RELOCATED OR MOVED BUILDINGS</b>				
<b>CHAPTER 14 - PERFORMANCE COMPLIANCE METHODS</b>				
Chapter 14	SPS 366.1301 should be renumbered 366.1401 and should reference IEBC chapter 14 sections			
<b>CHAPTER 15 - CONSTRUCTION SAFEGUARDS</b>				
	SPS 366.1400 should be			

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	renumbered 366.1500 and should reference IEBC chapter 15			
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CHAPTER 16 - REFERENCED STANDARDS

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APPENDICES

Appendix A				
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Chapter A1				
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Chapter A2				
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Chapter A3				
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Chapter A4				
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Chapter A5				
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Chapter A6				
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Appendix B				
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Appendix C				
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Chapter C1				
Chapter C2				
Resource A				

a. Published sources:

- 2009 *International Existing Building Code*<sup>®</sup> – International Code Council<sup>®</sup> (ICC)
- 2012 *International Existing Building Code* – International Code Council
- 2015 *International Existing Building Code* – International Code Council

b. Various ICC code section number references in SPS 366 will be updated where code section numbering has changed, but these modifications are not referenced here.

c. Changes that are not addressed because they do not apply in Wisconsin include the changes for all of chapter 1 Administration.

d. Chapter SPS 361 & 366 of the *Wisconsin Administrative Code* (Register, December 2011)

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*File Reference: SPS 366/Summary 2012 & 2015 IEBC changes*