



# Solar Energy Provisions Comparison

## 2015 ISEP/2012 I-Codes



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## 2015 ISEP/2012 I-Codes

A comparative analysis of the 2015 International Solar Energy Provisions (ISEP)  
to the 2012 International Codes (I-Codes)

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# Solar Energy Provisions Comparison

## 2015 ISEP Commercial/2012 I-Codes

<b>ISEP Chapter 1 [CS] Scope and Administration</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012 Code</b>	
Scope	CS101.1 (IMC 101.2)	IMC 101.2	No change, however in the context of ISEP, it applies to all solar energy systems and auxiliary or backup systems included in ISEP.
Intent	CS101.2 (IMC 101.3)	IMC 101.3	No change. While ISEP Chapter 1 has been extracted from the IMC, the same or similar provisions exist in all I-Codes and as such, ISEP Chapter 1 applies to all solar energy provisions included in ISEP.
General	CS102.1 (IMC 102.1)	IMC 102.1	No change.
Existing installations	CS102.2 (IMC 102.2)	IMC 102.2	No change.
Maintenance	CS102.3 (IMC 102.3)	IMC 102.3	No change.
Additions, alterations or repairs	CS102.4 (IMC 102.4)	IMC 102.4	No change.
Change in occupancy	CS102.5 (IMC 102.5)	IMC 102.5	No change.
Historic buildings	CS102.6 (IMC 102.6)	IMC 102.6	No change.
Moved buildings	CS102.7 (IMC 102.7)	IMC 102.7	No change.
Referenced codes and standard	CS102.8 (IMC 102.8)	IMC 102.8	No change
Conflicts	CS102.8.1 (IMC 102.8.1)	IMC 102.8.1	No change
Provisions in referenced codes and standards	CS102.8.2 (IMC 102.8.2)	IMC 102.8.2	No change
Requirements not covered by [this code]	CS102.9 (IMC 102.9)	IMC 102.9	No change
Other laws	CS102.10 (IMC 102.10)	IMC 102.10	No change

<b>ISEP Chapter 1 [CS] Scope and Administration</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012 Code</b>	
Application of references	CS102.11 (IMC 102.11)	IMC 102.11	No change
Modifications	CS103.1 (IMC 105.1)	IMC 105.1	No change
Alternative materials, methods, equipment and appliances	CS103.2 (IMC 105.2)	IMC 105.2	No change, however ISEP includes a requirement where the code official shall respond in writing stating the reasons why the alternative was not approved
Research reports	CS103.2.1 (IMC 105.2.1)	IMC 105.2.1	No change
Required testing	CS103.3 (IMC 105.3)	IMC 105.3	No change
Test method	CS103.3.1 (IMC 105.3.1)	IMC 105.3.1	No change
Testing agency	CS103.3.2 (IMC 105.3.2)	IMC 105.3.2	No change
Test reports	CS103.3.3 (IMC 105.3.3)	IMC 105.3.3	No change
Approved materials and equipment	CS103.4 (IMC 105.4)	IMC 105.4	No change
Material, equipment and appliance reuse	CS103.5 (IMC 105.5)	IMC 105.5	No change
Where required	CS104.1 (IMC 106.1)	IMC 106.1	No change
General	CS105.1 (IMC 107.1)	IMC 107.1	No change
Required inspections and testing	CS105.2 (IMC 107.2)	IMC 107.2	No change
Other inspections	CS105.2.1 (IMC 107.2.1)	IMC 107.2.1	No change
Inspection requests	CS105.2.2 (IMC 107.2.2)	IMC 107.2.2	No change
Approval required	CS105.2.3 (IMC 107.2.3)	IMC 107.2.2	No change
Approved inspection agencies	CS105.2.4 (IMC 107.2.4)	IMC 107.2.4	No change
Evaluation and follow-up inspection services	CS105.2.5 (IMC 107.2.5)	IMC 107.2.5	No change

<b>ISEP Chapter 1 [CS] Scope and Administration</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012 Code</b>	
Evaluation service	CS105.2.5.1 (IMC 107.2.5.1)	IMC 107.2.5.1	No change
Follow-up inspection	CS105.2.5.2 (IMC 107.2.5.2)	IMC 107.2.5.2	No change
Test and inspection records	CS105.2.5.3 (IMC 107.2.5.3)	IMC 107.2.5.3	No change
Testing	CS105.3 (IMC 107.3)	IMC 107.3	No change
New, altered, extended or repaired systems	CS105.3.1 (IMC 107.3.1)	IMC 107.3.1	No change
Apparatus, material and labor for tests	CS105.3.2 (IMC 107.3.2)	IMC 107.3.2	No change
Reinspection and testing	CS105.3.3 (IMC 107.3.3)	IMC 107.3.3	No change
Approval	CS105.4 (IMC 107.4)	IMC 107.4	No change
Revocation	CS105.4.1 (IMC 107.4.1)	IMC 107.4.1	No change
Temporary connection	CS105.5 (IMC 107.5)	IMC 107.5	No change
Connection of service utilities	CS105.6 (IMC 107.6)	IMC 107.6	No change
<b>ISEP Chapter 2 [CS] Definitions</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Scope	CS201.1 (IMC 201.1)	IMC 201.1	No change
Interchangeability	CS201.2 (IMC 201.2)	IMC 201.2	No change
Terms defined in other codes	CS201.3 (IMC 201.3)	IMC 201.3	No change
Terms not defined	CS201.4 (IMC 201.4)	IMC 201.4	No change

<b>ISEP Chapter 3 [CS] General Requirements</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Scope	CS301.1 (IMC 301.1)	IMC 301.1	No change
Energy utilization	CS301.2 (IMC 301.2)	IMC 301.2	No change
Identification	CS301.3 (IMC 301.3)	IMC 301.3	No change
Plastic pipe, fittings and components	CS301.4 (IMC 301.4)	IMC 301.4	No change
Third-party testing and certification	CS301.5 (IMC 301.5)	IMC 301.5	No change
Fuel gas appliances and equipment	CS301.6 (IMC 301.6)	IMC 301.6	No change
Listed and labeled	CS301.7 (IMC 301.7)	IMC 301.7	No change
Labeling	CS301.8 (IMC 301.8)	IMC 301.8	No change
Testing	CS301.8.1 (IMC 301.8.1)	IMC 301.8.1	No change
Inspection and identification	CS301.8.2 (IMC 301.8.2)	IMC 301.8.2	No change
Independent	CS301.8.2.1 (IMC 301.8.2.1)	IMC 301.8.2.1	No change
Equipment	CS301.8.2.2 (IMC 301.8.2.2)	IMC 301.8.2.2	No change
Personnel	CS301.8.2.3 (IMC 301.8.2.3)	IMC 301.8.2.3	No change
Label information	CS301.9 (IMC 301.9)	IMC 301.9	No change
Electrical	CS301.10 (IMC 301.10)	IMC 301.10	No change
Plumbing connections	CS301.11 (IMC 301.11)	IMC 301.11	No change
Fuel types	CS301.12 (IMC 301.12)	IMC 301.12	No change
Vibration isolation	CS301.13 (IMC 301.13)	IMC 301.13	No change
Repair	CS301.14 (IMC 301.14)	IMC 301.14	No change

ISEP Chapter 3 [CS] General Requirements			
Section Title	Code Section		Comment
	2015 ISEP	2012	
Wind resistance	CS301.15 (IMC 301.15)	IMC 301.15	No change
Flood hazard	CS301.16 (IMC 301.16)	IMC 301.16	No change
Coastal high-hazard areas and coastal A zones	CS301.16.1 (IMC 301.16.1)	IMC 301.16.1	Section Title changed from <i>High-velocity wave action</i> in 2012 IMC to <i>Coastal high-hazard areas and coastal A zones</i> .
Rodentproofing	CS301.17 (IMC 301.17)	IMC 301.17	No change
Seismic resistance	CS301.18 (IMC 301.18)	IMC 301.18	No change
Structural safety	CS302.1 (IMC 302.1)	IMC 302.1	No change
Penetrations of floor/ceiling assemblies and fire-resistance-rated assemblies	CS302.2 (IMC 302.2)	IMC 302.2	No change
Cutting, notching and boring in wood framing	CS302.3 (IMC 302.3)	IMC 302.3	No change
Joist notching	CS302.3.1 (IMC 302.3.1)	IMC 302.3.1	No change
Stud cutting and notching	CS302.3.2 (IMC 302.3.2)	IMC 302.3.2	No change
Bored holes	CS302.3.3 (IMC 302.3.3)	IMC 302.3.3	No change
Engineered wood products	CS302.3.4 (IMC 302.3.4)	IMC 302.3.4	Cutting, notching and boring holes in engineered wood products such as trusses and I-Joists are not allowed unless permitted by the manufacturer. In ISEP, as an alternative, a structural analysis by a qualified design professional is also acceptable.
Alterations to trusses	CS302.4 (IMC 302.4)	IMC 302.4	No change
Cutting, notching and boring in steel framing	CS302.5 (IMC 302.5)	IMC 302.5	No change

<b>ISEP Chapter 3 [CS] General Requirements</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Cutting, notching and boring holes in structural steel framing	CS302.5.1 (IMC 302.5.1)	IMC 302.5.1	No change
Cutting, notching and boring holes in cold-formed steel framing	CS302.5.2 (IMC 302.5.2)	IMC 302.5.2	No change
Cutting, notching and boring holes in nonstructural cold-formed steel wall framing	CS302.5.3 (IMC 302.5.3)	IMC 302.5.3	No change
General	CS303.1 (IMC 303.1)	IMC 303.1	No change
Hazardous locations	CS303.2 (IMC 303.2)	IMC 303.2	No change
Protection from damage	CS303.3 (IMC 303.4)	IMC 303.4	No change
Outdoor locations	CS303.4 (IMC 303.6)	IMC 303.6	No change
Pit locations	CS303.5 (IMC 303.7)	IMC 303.7	No change
Elevator shafts	CS303.6 (IMC 303.8)	IMC 303.8	No change
General	CS304.1 (IMC 304.1)	IMC 304.1	No change
Conflicts	CS304.2 (IMC 304.2)	IMC 304.2	No change
Elevation of ignition source	CS304.3 (IMC 304.3)	IMC 304.3	No change
Parking garages	CS304.3.1 (IMC 304.3.1)	IMC 304.3.1	No change
Prohibited equipment and appliance location	CS304.4 (IMC 304.4)	IMC 304.4	No change
Public garages	CS304.5 (IMC 304.6)	IMC 304.6	No change
Private garages and protection	CS304.6 (IMC 304.7)	IMC 304.7	No change
Construction and protection	CS304.7 (IMC 304.8)	IMC 304.8	No change

<b>ISEP Chapter 3 [CS] General Requirements</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Clearances to combustible construction	CS304.8 (IMC 304.9)	IMC 304.9	No change
Clearances from grade	CS304.9 (IMC 304.10)	IMC 304.10	No change
Guards	CS304.10 (IMC 304.11)	IMC 304.11	No change
Area served	CS304.11 (IMC 304.12)	IMC 304.12	No change
General	CS305.1 (IMC 305.1)	IMC 305.1	No change
Materials	CS305.2 (IMC 305.2)	IMC 305.2	No change
Structural attachment	CS305.3 (IMC 305.3)	IMC 305.3	No change
Interval of support	CS305.4 (IMC 305.4)	IMC 305.4	Piping support referenced standard has been updated from MSS SP-69-2002 to the newer and more specific MSS SP-58-2009. MSS SP-58 and MSS SP-69 are standards of the Manufacturers Standardization Society of the Valve and Fittings Industry, Inc.
Protection against physical damage	CS305.5 (IMC 305.5)	IMC 305.5	No change
Access	CS306.1 (IMC 306.1)	IMC 306.1	No change
Appliances in rooms	CS306.2 (IMC 306.2)	IMC 306.2	No change
Appliances in attics	CS306.3 (IMC 306.3)	IMC 306.3	No change
Electrical requirements	CS306.3.1 (IMC 306.3.1)	IMC 306.3.1	No change
Appliances under floors	CS306.4 (IMC 306.4)	IMC 306.4	No change
Electrical requirements	CS306.4.1 (IMC 306.4.1)	IMC 306.4.1	No change
Equipment and appliances on roofs or elevated structures	CS306.5 (IMC 306.5)	IMC 306.5	No change

<b>ISEP Chapter 3 [CS] General Requirements</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Sloped roofs	CS306.5.1 (IMC 306.5.1)	IMC 306.5.1	No change
Electrical requirements	CS306.5.2 (IMC 306.5.2)	IMC 306.5.2	No change
Fuel-burning appliances	CS307.1 (IMC 307.1)	IMC 307.1	No change
Evaporators and cooling coils	CS307.2 (IMC 307.2)	IMC 307.2	No change
Space-heating systems	CS308.1 (IMC 309.1)	IMC 309.1	A second exception has been added for Group F, H, S and U occupancies such as factories and manufacturing facilities where the operation and processes dictate temperature control.
Load calculations	CS309.1 (IMC 312.1)	IMC 312.1	No change
<b>ISEP Chapter 4 [CS] Solar Thermal and Auxiliary Systems</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Scope	CS401.1 (IMC 1401.1)	IMC 1401.1	No change
Potable water supply	CS401.2 (IMC 1401.2)	IMC 1401.2	No change
Heat exchangers	CS401.3 (IMC 1401.3)	IMC 1401.3	No change
Solar energy equipment and appliances	CS401.4 (IMC 1401.4)	IMC 1401.4	No change
Ducts	CS401.5 (IMC 1401.5)	IMC 1401.5	No change
Access	CS402.1 (IMC 1402.1)	IMC 1402.1	No change
Protection of equipment	CS402.2 (IMC 1402.2)	IMC 1402.2	No change
Controlling condensation	CS402.3 (IMC 1402.3)	IMC 1402.3	No change
Roof-mounted collectors	CS402.4 (IMC 1402.4)	IMC 1402.4	No change
Collectors mounted above the roof	CS402.4.1 (IMC 1402.4.1)	IMC 1402.4.1	No change
Equipment	CS402.5 (IMC 1402.5)	IMC 1402.5	No change

<b>ISEP Chapter 4 [CS] Solar Thermal and Auxiliary Systems</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Pressure and temperature	CS402.5.1 (IMC 1402.5.1)	IMC 1402.5.1	No change
Approval of safety and safety relief valves	CS402.5.1.1 (IMC 1006.4)	IMC 1006.4	No change
Safety and relief valve discharge	CS402.5.1.2 (IMC 1006.6)	IMC 1006.6	No change
Collection surface	CS402.5.1.3 (IPC 1303.2)		New in 2015
Vacuum	CS402.5.2 (IMC 1402.5.2)	IMC 1402.5.2	No change
Protection from freezing	CS402.5.3 (IMC 1402.5.3)	IMC 1402.5.3	No change
Expansion tanks	CS402.5.4 (IMC 1402.5.4)	IMC 1402.5.4	No change
Penetrations	CS402.6 (IMC 1402.6)	IMC 1402.6	No change
Filtering	CS402.7 (IMC 1402.7)	IMC 1402.7	No change
Flash point	CS403.1 (IMC 1403.1)	IMC 1403.1	No change
Flammable gases and liquids	CS403.2 (IMC 1403.2)	IMC 1403.2	No change
Collectors	CS404.1 (IMC 1404.1)	IMC 1404.1	No change
Thermal storage units	CS404.2 (IMC 1404.2)	IMC 1404.2	No change
General	CS405.1 (IMC 1002.1)	IMC 1002.1	No change
Water heaters utilized for space heating	CS405.2 (IMC 1002.2)	IMC 1002.2	No change
Sizing	CS405.2.1 (IMC 1002.2.1)	IMC 1002.2.1	No change
Temperature limitation	CS405.2.2 (IMC 1002.2.2)	IMC 1002.2.2	No change
Supplemental water-heating devices	CS405.3 (IMC 1002.3)	IMC 1002.3	No change
General	CS406.1 (IMC 1003.1)	IMC 1003.1	ISEP has an additional requirement for pressure vessels to be installed in accordance with the manufacturer instructions and nationally recognized standards. A new reference to section CS 412 (IMC 1009) is made for directly fired pressure vessels.

<b>ISEP Chapter 4 [CS] Solar Thermal and Auxiliary Systems</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Piping	CS406.2 (IMC 1003.2)	IMC 1003.2	No change
Welding	CS406.3 (IMC 1003.3)	IMC 1003.3	ISEP modified requirement: Welding on pressure vessels shall be performed by an R-Stamp holder in accordance with the National Board Inspection Code, Part 3 or in accordance with an approved standard.
Standards	CS407.1 (IMC 1004.1)	IMC 1004.1	No change, however ISEP clarified requirement for Controls and safety devices for boiler with fuel inputs ratings: ≤ 12,500 Btu/hr shall meet ASME CDS-1 > 12,500 Btu/hr shall meet NFPA 85
Installation	CS407.2 (IMC 1004.2)	IMC 1004.2	No change
Working clearance	CS407.3 (IMC 1004.3)	IMC 1004.3	No change
Top clearance	CS407.3.1 (IMC 1004.3.1)	IMC 1004.3.1	No change
Mounting	CS407.4 (IMC 1004.4)	IMC 1004.4	No change
Floors	CS407.5 (IMC 1004.5)	IMC 1004.5	No change
Boiler rooms and enclosures	CS407.6 (IMC 1004.6)	IMC 1004.6	No change
Operating adjustments and instructions	CS407.7 (IMC 1004.7)	IMC 1004.7	No change
Valves	CS408.1 (IMC 1005.1)	IMC 1005.1	No change
Potable water supply	CS408.2 (IMC 1005.2)	IMC 1005.2	No change
Safety valves for steam boilers	CS409.1 (IMC 1006.1)	IMC 1006.1	No change
Safety relief valves for hot water boilers	CS409.2 (IMC 1006.2)	IMC 1006.2	No change
Pressure relief for pressure vessels	CS409.3 (IMC 1006.3)	IMC 1006.3	No change
Approval of safety and safety relief valves	CS409.4 (IMC 1006.4)	IMC 1006.4	No change
Installation	CS409.5 (IMC 1006.5)	IMC 1006.5	No change

<b>ISEP Chapter 4 [CS] Solar Thermal and Auxiliary Systems</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Safety and relief valve discharge	CS409.6 (IMC 1006.6)	IMC 1006.6	No change
Boiler safety devices	CS409.7 (IMC 1006.7)	IMC 1006.7	No change
Electrical requirements	CS409.8 (IMC 1006.8)	IMC 1006.8	No change
General	CS410.1 (IMC 1007.1)	IMC 1007.1	ISEP includes a new Exception: A low-water cutoff is not required for coil type and water-tube-type boilers that require forced circulation of water through the boiler and that are protected with a flow sensing control.
Operation	CS410.2 (IMC 1007.2)	IMC 1007.2	ISEP includes a modification: shall stop combustion operation when water circulation stops
General	CS411.1 (IMC 1008.1)	IMC 1008.1	No change, however ISEP includes a requirement of two bottom blowoff valve(s) when maximum allowable working pressure exceeds 100 psi.
Discharge	CS411.2 (IMC 1008.2)	IMC 1008.2	No change
Where required	CS412.1 (IMC 1009.1)	IMC 1009.1	No change
Closed-type expansion tanks	CS412.2 (IMC 1009.2)	IMC 1009.2	ISEP includes a new criterion: Expansion tanks for systems designed to have an operating pressure in excess of 30 psi shall comply with ASME Boiler and Pressure Vessel Code. A new table has been added for Closed-Type Expansion Tank Sizing.
Open-type expansion tanks	CS412.3 (IMC 1009.3)	IMC 1009.3	No change
Hot water boiler gauges	CS413.1 (IMC 1010.1)	IMC 1010.1	No change
Steam boiler gauges	CS413.2 (IMC 1010.2)	IMC 1010.2	No change
Water-gauge glass	CS413.2.1 (IMC 1010.2.1)	IMC 1010.2.1	No change
Tests	CS414.1 (IMC 1011.1)	IMC 1011.1	No change
Test gauges	CS414.2 (IMC 1011.2)	IMC 1011.2	No change

ISEP Chapter 5 [CS] Photovoltaic Systems			
Section Title	Code Section		Comment
	2015 ISEP	2012	
Scope	CS501.1 (IBC 1501.1)	IBC 1501.1	No change
General	CS502.1 (IBC 1505.1)	IBC 1505.1	No change
Class A roof assemblies	CS502.2 (IBC 1505.2)	IBC 1505.2	No change
Class B roof assemblies	CS502.3 (IBC 1505.3)	IBC 1505.3	No change
Class C roof assemblies	CS502.4 (IBC 1505.4)	IBC 1505.4	No change
Nonclassified roofing	CS502.5 (IBC 1505.5)	IBC 1505.5	No change
Building-integrated photovoltaic products	CS502.6 (IBC 1505.8)	IBC 1505.8	2012 IBC title of <i>Photovoltaic systems</i> has changed to the new title <i>Building-integrated photovoltaic products</i> . In addition to the labeling requirement of the 2012 code, now these systems are clarified to require testing and listing as well.
Photovoltaic panels and modules	CS502.7 (IBC 1505.9)	IBC 1511.1	Revisions incorporated to now require photovoltaic panels/modules to be tested, listed and identified with a fire classification in accordance with UL 1703.
Scope	CS503.1 (IBC 1507.1)	IBC 1507.1	No change
Photovoltaic shingles	CS503.2 (IBC 1507.17)	IBC 1507.17	2012 IBC title Photovoltaic modules/shingles changed to Photovoltaic shingles.
Deck requirements	CS503.2.1 (IBC 1507.17.1)	IBC 1507.5.1, 1507.7.1, etc.	2012 IBC included requirements under specific roofing types. 2015 codes continue to do the same, however IBC Section 1507.17 (ISEP CS503.2) has been added to address the same topics such as roof decks, deck slope, underlayment, ice barriers, etc. specific to photovoltaic shingles.

<b>ISEP Chapter 5 [CS] Photovoltaic Systems</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Deck slope	CS503.2.2 (IBC 1507.17.2)		2012 IBC included requirements under specific roofing types. 2015 codes continue to do the same, however IBC Section 1507.17 (ISEP CS503.2) has been added to address the same topics such as roof decks, deck slope, underlayment, ice barriers, etc. specific to photovoltaic shingles.
Underlayment	CS503.2.3 (IBC 1507.17.3)		
Underlayment application	CS503.2.4 (IBC 1507.17.4)		
High wind attachment	CS503.2.4.1 (IBC 1507.17.4.1)		
Ice barrier	CS503.2.4.2 (IBC 1507.17.4.2)		
Fasteners	CS503.2.5 (IBC 1507.17.5)		
Material standards	CS503.2.6 (IBC 1507.17.6)		
Attachment	CS503.2.7 (IBC 1507.17.7)		
Wind resistance	CS503.2.8 (IBC 1507.17.8)		
General	CS504.1 (IBC 1510.1)	IBC 1509.1	No change
Photovoltaic panels and modules	CS504.2 (IBC 1510.7)	IBC 1509.7	2012 Section Title Photovoltaic systems was changed to Photovoltaic panels and modules.
Wind resistance	CS504.2.1 (IBC 1510.7.1)	IBC 1509.7.1	No change
Fire classification	CS504.2.2 (IBC 1510.7.2)	IBC 1509.7.2	No change
Installation	CS504.2.3 (IBC 1510.7.3)	IBC 1509.7.3	No change
Photovoltaic panels and modules	CS504.2.4 (IBC 1510.7.4)	IBC 1509.7.4	No change
Photovoltaic panels and modules	CS505.1 (IBC 1512.1)	IBC 1511.1	No change
General	CS506.1 (IBC 1603.1)	IBC 1603.1	No change
Special loads	CS506.1.1 (IBC 1603.1.8)	IBC 1603.1.8	No change
Photovoltaic panel systems	CS506.1.1.1 (IBC 1603.1.8.1)		New in 2015
General	CS507.1 (IBC 1607.1)	IBC 1607.1	No change

<b>ISEP Chapter 5 [CS] Photovoltaic Systems</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Photovoltaic panel systems	CS507.1.1 (IBC 1607.12.5)		New in 2015 to address specific photovoltaic panel system impact to roof loads.
Roof live load	CS507.1.1.1 (IBC 1607.12.5.1)		
Photovoltaic panels or modules	CS507.1.1.2 (IBC 1607.12.5.2)		
Photovoltaic panels or modules installed as an independent structure.	CS507.1.1.3 (IBC 1607.12.5.3)		
Ballasted photovoltaic panel systems	CS507.1.1.4 (IBC 1607.12.5.4)		
Scope	CS508.1 (IBC 1613.1)	IBC 1613.1	No change
Ballasted photovoltaic panel systems	CS508.2 (IBC 1613.6)		New in 2015 to address ballasted photovoltaic panel system requirements in relation to earthquake loads.
Solar photovoltaic power systems	CS509.1 (IFC 605.11)	IFC 605.11	No change
Access and pathways	CS509.1.1 (IFC 605.11.1)	IFC 605.11.3	No change
Roof access points	CS509.1.1.1 (IFC 605.11.1.1)	IFC 605.11.3.1	No change
Solar photovoltaic systems for Group R-3 buildings	CS509.1.1.2 (IFC 605.11.1.2)	IFC 605.11.3.2	The title and scoping has changed and the requirements apply to Group R-3 Occupancies. All one and two family dwellings are addressed in the IRC.
Size of solar photovoltaic array	CS509.1.1.2.1 (IFC 605.11.1.2.1)		New in 2015
Hip roof lay-outs	CS509.1.1.2.2 (IFC 605.11.1.2.2)	IFC 605.11.3.2.1	Title change only No change in requirements
Single-ridge roofs	CS509.1.1.2.3 (IFC 605.11.1.2.3)	IFC 605.11.3.2.2	Title change only No change in requirements
Roofs with hips and valleys	CS509.1.1.2.4 (IFC 605.11.1.2.4)	IFC 605.11.3.2.3	Title change only No change in requirements

<b>ISEP Chapter 5 [CS] Photovoltaic Systems</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Allowance for smoke ventilation operations	CS509.1.1.2.5 (IFC 605.11.1.2.5)	IFC 605.11.3.2.4	The change in scope clarifies the requirements are applicable to R-3 Occupancies. A new exception has also been added: <i>Panels and modules shall be permitted to be located up to the roof ridge where an alternative ventilation method approved by the fire chief has been provided or where the fire chief has determined vertical ventilation techniques will not be employed.</i>
Other than Group R-3 buildings	CS509.1.1.3 (IFC 605.11.1.3)	IFC 605.11.3.3	Title change from “other than residential buildings” to “other than Group R-3 buildings”
Access	CS509.1.1.3.1 (IFC 605.11.1.3.1)	IFC 605.11.3.3.1	No change
Pathways	CS509.1.1.3.2 (IFC 605.11.1.3.2)	IFC 605.11.3.3.2	No change
Smoke ventilation	CS509.1.1.3.3 (IFC 605.11.1.3.3)	IFC 605.11.3.3.3	Revised to differentiate between roof gravity and no-gravity operated dropout smoke and heat vents
Ground-mounted photo-voltaic arrays	CS509.1.2 (IFC 605.11.2)	IFC 605.11.4	No change
<b>ISEP Chapter 6 [CS] Alternate Compliance Provisions</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Roof solar reflectance and thermal emittance	CS602.1 (IECC C402.3)	IECC C402.2.1.1	Additional solar related provisions were added in 2015.
Building mechanical systems	CS602.2 (IECC C403)	IECC C403	No change
HVAC equipment performance requirements	CS602.2.1 (IECC C403.2.3)	IECC C403.2.3	No change
Freeze protection system controls	CS602.2.2 (IECC C403.2.4.6)		New Section in 2015
Energy recovery ventilation systems	CS602.2.3 (IECC C403.2.7)	IECC C403.2.6	No change
Requirements for complex mechanical systems serving multiple zones	CS602.2.4 (IECC C403.4.4)	IECC C403.4.5	ISEP includes additional requirements for Variable Air Volume (VAV) systems and has simplified VAV Exceptions.
Supply-air temperature reset controls	CS602.2.5 (IECC C403.4.4.5)	IECC C403.4.5.4	No change

<b>ISEP Chapter 6 [CS] Alternate Compliance Provisions</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Service water heating (Mandatory)	CS602.3 (IECC C404)	IECC C404	No change
High input-rated service water-heating systems	CS602.3.1 (IECC C404.2.1)		New in 2015
Energy consumption of pools and permanent spas (Mandatory)	CS602.3.2 (IECC C404.9)	IECC C404.7	Section Title change and other modifications.
Time switches	CS602.3.2.1 (IECC C404.9.2)	IECC 404.7.2	No change
Covers	CS602.3.2.2 (IECC C404.9.3)	IECC 404.7.3	No change
Additional efficiency package options	CS602.4 (IECC C406)	IECC C406	No change
Load fraction	CS602.4.1 (IECC C406.7.1)		New in 2015
Time switches	CS603.1 (ISPSC 303.1.2)	ISPSC 303.3	No change
Covers	CS603.2 (ISPSC 303.1.3)	ISPSC 303.4	No change
Listed and labeled	CS604.1 (ISPSC 316.2)	ISPSC 316.2	No change

# Solar Energy Provisions Comparison

## 2015 ISEP Residential/2012 I-Codes

(The 2012 Code Sections and 2015 I-Code Source Sections are from the IRC except where the IFC has been denoted)

<b>ISEP Chapter 1 [RS] Scope and Administration</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Scope	RS101.1 (R101.2)	R101.2	No change
Intent	RS101.2 (R101.3)	R101.3	No change
General	RS102.1 (R102.1)	R102.1	No change
Other laws	RS102.2 (R102.2)	R102.2	No change
Application of references	RS102.3 (R102.3)	R102.3	No change
Referenced codes and standards	RS102.4 (R102.4)	R102.4	No change
Conflicts	RS102.4.1 (R102.4.1)	R102.4.1	No change
Provisions in referenced codes and standards	RS102.4.2 (R102.4.2)	R102.4.2	No change
Appendices	RS102.5 (R102.5)	R102.4.5	No change
Partial invalidity	RS102.6 (R102.6)	R102.4.6	No change
Existing structures	RS102.7 (R 102.7)	R102.4.7	No change
Additions, alterations or repairs	RS102.7.1 (R102.7.1)	R102.4.7.1	No change
Approved materials and equipment.	RS103.1 (R104.9)	R104.9	No change
Used materials and equipment	RS103.1.1 (R104.9.1)	R104.9.1	No change
Modifications	RS103.2 (R104.10)	R104.10	No change
Flood hazard areas	RS103.2.1 (R104.10.1)	R104.10.1	2015 provides five cases in which the Building Official may allow modifications, where the 2012 IRC allowed the modification through the Board of Appeals.

<b>ISEP Chapter 1 [RS] Scope and Administration</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Alternative materials, design and methods of construction and equipment	RS103.3 (R104.11)	R104.11	A modification in 2015 code requires that the building official shall respond in writing for not approving an alternative material, design or method of construction.
Tests	RS103.3.1 (R104.11.1)	R104.11.1	No change
Required	RS104.1 (R106.1)	R105.1	No change
Work exempt from permit	RS104.2 (R105.2)	R105.2	No change
Emergency repairs	RS104.2.1 (R105.2.1)	R105.2.1	No change
Repairs	RS104.2.2 (R105.2.2)	R105.2.2	No change
Public service agencies	RS104.2.3 (R105.2.3)	R105.2.3	No change
Submittal documents	RS105.1 (R106.1)	R106.1	No change
Types of inspections	RS106.1 (R109.1)	R109.1	No change
Foundation inspection	RS106.1.1 (R109.1.1)	R109.1.1	No change
Plumbing, mechanical, gas and electrical systems inspection	RS106.1.2 (R109.1.2)	R109.1.2	No change
Floodplain inspections	RS106.1.3 (R109.1.3)	R109.1.3	No change
Frame and masonry inspection	RS106.1.4 (R109.1.4)	R109.1.4	No change
Other inspections	RS106.1.5 (R109.1.5)	R109.1.5	No change
Fire-resistance-rated construction inspection	RS106.1.5.1 (R109.1.5.1)	R109.1.5.1	No change
Final inspection	RS106.1.6 (R109.1.6)	R109.1.6	No change
Elevation documentation	RS106.1.6.1 (R109.1.6.1)	R109.1.6.1	No change
Inspection agencies	RS106.2 R109.2)	R109.2	No change
Inspection requests	RS106.3 (R109.3)	R109.3	No change

<b>ISEP Chapter 1 [RS] Scope and Administration</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Approval required	RS106.4 (R109.4)	R109.4	No change
Connection of service utilities	RS107.1 (R111.1)	R111.1	No change
Temporary connection	RS107.2 (R111.2)	R111.2	No change
Authority to disconnect service utilities	RS107.3 (R111.3)	R111.3	No change
<b>ISEP Chapter 2 [RS] Definitions</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Scope	RS201.1 (R201.1)	R201.1	No change
Interchangeability	RS201.2 (R201.2)	R201.2	No change
Terms defined in other codes	RS201.3 (R201.3)	R201.3	No change
Terms not defined	RS201.4 (R201.4)	R201.4	No change
<b>ISEP Chapter 3 [RS] Solar Thermal and Auxiliary Systems</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
General	RS301.1 (M2301.1)	M2301.1	No change
Design and installation	RS301.2 (M2301.2)	M2301.2	Title change from 2012 Title Installation
Access	RS301.2.1 (M2301.2.1)	M2301.2.1	No change
Roof access points	RS301.2.1.1 (IFC 605.11.1.1)	IFC605.11.3.1	No change
Collectors and panels	RS301.2.2 (M2301.2.2)		New introductory section related to collectors and panels
Rooftop structure and equipment clearance	RS301.2.2.1 (IFC 317.3)	IFC317.3	No change
Roof-mounted collectors	RS301.2.2.2 (M2301.2.2.1)	M2301.2.2	No change
Collector sensors	RS301.2.2.3 (M2301.2.2.2)		New section in 2015 related to collector sensor installation, location and protection and reference to Solar Rating and Certification Corporation SRCC 300

<b>ISEP Chapter 3 [RS] Solar Thermal and Auxiliary Systems</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Pressure and temperature relief valves and system components	RS301.2.3 (M2301.2.3)	M2301.2.3	ISEP expanded the requirements and has included different requirements for direct systems, potable water portion of indirect systems and Indirect systems
Vacuum relief	RS301.2.4 (M2301.2.4)	M2301.2.4	No change
Piping insulation	RS301.2.5 (M2301.2.5)		New section related to Thermal Solar Energy Systems pipe insulation requirements
Protection from freezing	RS301.2.6 (M2301.2.6)	M2301.2.5	No change
Storage tank sensors	RS301.2.7 (M2301.2.7)		New section related to storage tank sensors and reference to Solar Rating and Certification Corporation SRCC 300
Expansion tanks	RS301.2.8 (M2301.2.8)	M2301.2.6	ISEP include a requirement that expansion tank shall meet SRCC 300
Roof and wall penetrations	RS301.2.9 (M2301.2.9)	M2301.2.7	No change
Description and warning labels	RS301.2.10 (M2301.2.10)		New introductory section for warning labels and reference to Solar Rating and Certification Corporation SRCC 300
Solar loop	RS301.2.11 (M2301.2.11)		New introductory section for solar loops
Solar loop isolation	RS301.2.11.1 (M2301.2.11.1)	M2301.2.8	ISEP eliminated the requirement of the open and closed position label on isolation valve
Drain and fill valve labels and caps	RS301.2.11.2 (M2301.2.11.2)		New section related to drain and fill valve labeling with a description and warning that identifies the fluid in the solar loop and that the fluid might be discharged at high temperature and pressure.
Maximum temperature limitation	RS301.2.12 (M2301.2.12)	M2301.2.9	No change
Thermal storage unit seismic bracing	RS301.2.13 (M2301.2.13)		New section related to seismic bracing of thermal storage units in certain Seismic Design Categories
Labeling	RS301.3 (M2301.3)	M2301.3	No change

<b>ISEP Chapter 3 [RS] Solar Thermal and Auxiliary Systems</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Collectors and panels	RS301.3.1 (M2301.3.1)	M2301.3.1	Revised Title in 2015 clarifies application to collectors and panels. ISEP also requires that collectors and panels shall be listed and labeled in accordance with SRCC100 and SRCC 600
Thermal storage units	RS301.3.2 (M2301.3.2)	M2301.3.2	No change
Heat transfer gasses or liquids and heat exchangers	RS301.4 (M2301.4)	M2301.4	Revised Title includes gasses, liquids and heat exchangers. ISEP prohibits fluids such as ethylene glycol. In addition ISEP expands requirements for heat transfer fluids. Reference is made to SRCC 300 for heat exchangers and heat transfer fluids
Backflow protection	RS301.5 (M2301.5)	M2301.5	No change
Filtering	RS301.6 (M2301.6)		New sections in 2015 address subjects of filtering, and direct and indirect systems for solar thermal heating of potable water
Solar thermal systems for heating potable water	RS301.7 (M2301.7)		
Indirect systems	RS301.7.1 (M2301.7.1)		
Direct systems	RS301.7.2 (M2301.7.2)		
Water temperature control	RS302.1 (P2802.1)		New section 2802 and its subsections 2802.1 and 2802.2 address water temperature control and isolation valves for solar water heating systems
Isolation valves	RS302.2 (P2802.2)		
Temperature control	RS302.3 (P2803.2)	P2802.2	No change
Protection of potable water connections	RS303.1 (P2902.5)	P2902.5	No change
Connections to boilers	RS303.1.1 (P2902.5.1)	P2092.5.1	No change
Heat exchangers	RS303.1.2 (P2902.5.2)	P2902.5.2	No change

<b>ISEP Chapter 3 [RS] Solar Thermal and Auxiliary Systems</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Solar thermal systems	RS303.1.3 (P2902.5.5)	P2902.5.5	Protection of water connections for solar thermal systems has new provisions addressing indirect, direct potable water distribution, and direct other than potable water distribution systems
Indirect systems	RS303.1.3.1 (P2902.5.5.1)		
Direct systems for potable water distribution systems	RS303.1.3.2 (P2902.5.5.2)		
Direct systems for other than potable water distribution systems	RS303.1.3.3 (P2902.5.5.3)		
Water heater valve	RS303.2 (P2903.9.2)	P2903.9.2	No change
Collection surface	RS303.3 (P2912.2)		New section in 2015 addresses surfaces that may be used for and surfaces that are prohibited to be used as collection surface as part of nonpotable rainwater collection and distribution systems
Installation	RS304.1 (M2001.1)	M2001.1	No change
Standards	RS304.1.1 (M2001.1.1)	M2001.1.1	No change
Clearance	RS304.2 (M2001.2)	M2001.2	No change
Valves	RS304.3 (M2001.3)	M2001.3	No change
Flood-resistant installation	RS304.4 (M2001.4)	M2001.4	No change
Safety controls	RS305.1 (M2002.1)	M2002.1	No change
Hot water boiler gauges	RS305.2 (M2002.2)	M2002.2	No change
Steam boiler gauges	RS305.3 (M2002.3)	M2002.3	No change
Pressure-relief valve	RS305.4 (M2002.4)	M2002.4	No change
Boiler low-water cutoff	RS305.5 (M2002.5)	M2002.5	A new exception added for coil type and water-tube type boilers.
Operation	RS305.6 (M2002.6)		New section addresses how low-water cutoff and flow sensing controls required in RS305.5 must operate
General	RS306.1 (M2003.1)	M2003.1	No change

<b>ISEP Chapter 3 [RS] Solar Thermal and Auxiliary Systems</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Pressurized expansion tanks	RS306.1.1 (M2003.1.1)	M2003.1.1	No change
Minimum capacity	RS306.2 (M2003.2)	M2003.2	No change
General	RS307.1 (M2004.1)	M2004.1	No change
General	RS308.1 (M2005.1)	M2005.1	No change
Prohibited locations	RS308.2 (M2005.2)	M2005.2	No change
Water heater access	RS308.2.1 (M2005.2.1)	M2005.2.1	No change
Electric water heaters	RS308.3 (M2005.3)	M2005.3	No change
Supplemental water-heating devices	RS308.4 (M2005.4)	M2005.4	No change
General	RS309.1 (M2006.1)	M2006.1	No change
Clearances	RS309.2 (M2006.2)	M2006.2	No change
Temperature-limiting devices	RS309.3 (M2006.3)	M2006.3	No change
Bypass valves	RS309.4 (M2006.4)	M2006.4	No change
Mechanical system piping insulation (Mandatory)	RS310.1 (N1103.4)	N1103.3	No change
Protection of piping insulation	RS310.1.1 (N1103.4.1)	N1103.3.1	No change
Pools and permanent spa energy consumption (Mandatory)	RS310.2 (N1103.10)		2012 Section N1103.9 is Section N1103.10 (RS310.2) in 2015.
Time switches	RS310.3 (N1103.10.3)		New exceptions added related to energy efficiency of solar systems
Covers	RS310.4 (N1103.10.4)		

<b>ISEP Chapter 4 [RS] Photovoltaic Systems</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Application	RS401.1 (R301.1)		No change
Photovoltaic systems	RS402.1 (R324.3)		New 2015 IRC Section R324 (ISEP RS402) addresses solar energy systems, mostly related to photovoltaic systems, and related provisions such as equipment listings, rooftop mounted systems, etc.
Equipment listings	RS402.1.1 (R324.3.1)		
Rooftop-mounted photovoltaic systems	RS402.2 (R324.4)		
Roof live load	RS402.2.1 (R324.4.1)		
Building-integrated photovoltaic systems	RS402.3 (R324.5)		
Photovoltaic shingles	RS402.3.1 (R324.5.1)		
Ground-mounted photovoltaic systems	RS402.4 (R324.6)		
Fire separation distances	RS402.4.1 (R324.6.1)		
Roofing covering materials	RS403.1 (R902.1)	R902.1	
Fire-retardant-treated shingles and shakes	RS403.2 (R902.2)	R902.2	No change
Building-integrated photovoltaic product	RS403.3 (R902.3)		New section addresses testing, labeling and listing requirements for building integrated photovoltaic products installed as the roof covering
Rooftop-mounted photovoltaic panels and modules	RS403.4 (R902.4)		New section addresses testing, labeling and listing requirements for rooftop mounted photovoltaic panels and modules for fire classification
Roof covering application	RS404.1 (R905.1)	R905.1	No change

<b>ISEP Chapter 4 [RS] Photovoltaic Systems</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Photovoltaic shingles	RS404.2 (R905.16)	R905.16	Additional requirements and limits for photovoltaic shingles, addressing deck requirements, deck slope, underlayment, etc. have been added to Section R905.16 (ISEP RS404.2)
Deck requirements	RS404.2.1 (R905.16.1)		
Deck slope	RS404.2.2 (R905.16.2)		
Underlayment	RS404.2.3 (R905.16.3)		
Underlayment application	RS404.2.4 (R905.16.4)		
Ice barrier	RS404.2.4.1 (R905.16.4.1)		
Underlayment and high winds	RS404.2.4.2 (R905.16.4.2)		
Material standards	RS404.2.5 (R905.16.5)		
Attachment	RS404.2.6 (R905.16.6)		
Wind resistance	RS404.2.7 (R905.16.7)		
Rooftop-mounted photovoltaic systems	RS405.1 (R907.1)		New Section R907 (ISEP RS 405), Rooftop mounted photovoltaic systems, with subsections on wind resistance, fire classification, installation, and photovoltaic panels and shingles listing and labeling has been added
Wind resistance	RS405.2 (R907.2)		
Fire classification	RS405.3 (R907.3)		
Installation	RS405.4 (R907.4)		
Photovoltaic panels and modules	RS405.5 (R907.5)		
General	RS406.1 (R909.1)		New Section R909 (ISEP RS406) addresses installation, penetration and structural requirements for rooftop-mounted photovoltaic panel systems
Structural requirements	RS406.2 (R909.2)		
Installation	RS406.3 (R909.3)		

<b>ISEP Chapter 5 [RS] Alternate Compliance Provisions</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
Scope	RS501.1 (IECC R401.1)	IECC R401.1	No change
Compliance	RS501.2 (IECC R401.2)	IECC R401.2	References to “Mandatory” and “Prescriptive” in 2012 IECC has been deleted and replaced with reference to specific sections of the IECC. Energy Rating Index approach of Section R406 of IECC has been added
Tropical zone	RS501.2.1 (IECC R401.2.1)		New section for tropical zones has been added
Pools and permanent spa energy consumption (Mandatory)	RS502.1 (IECC R403.10)		New section addresses pools and permanent spa energy consumption elements including time switches and covers
Time switches	RS502.1.1 (IECC R403.10.3)		
Covers	RS502.1.2 (IECC R403.10.4)		
Time switches	RS503.1 (ISPSC 303.1.2)	ISPSC 303.3	No change
Covers	RS503.2 (ISPSC 303.1.3)	ISPSC 303.4	In 2012 heated pool and in-ground permanently installed spas requires vapor retardant cover. In 2015 and ISEP just for outdoor heated pools and permanent spas vapor retardant cover or other approved means are required
Listed and labeled	RS504.1 (ISPSC 316.2)	ISPSC 316.2	No change

<b>APPENDIX U</b>			
<b>SOLAR-READY PROVISIONS—DETACHED ONE- ANDTWO-FAMILY DWELLINGS, MULTIPLE SINGLE-FAMILY DWELLINGS (TOWNHOUSES)</b>			
<b>Section Title</b>	<b>Code Section</b>		<b>Comment</b>
	<b>2015 ISEP</b>	<b>2012</b>	
General	U101.1		New Appendix U addresses solar-ready provisions and related solar-ready zones, obstructions, roof load documentation, construction documents, etc.
General	U103.1		
Construction document requirements for solar ready zone	U103.2		
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The corporation is a non-profit, accredited independent third-party certification entity that is wholly funded through fees paid by participants and users. It is unique in that it is the only national certification program established solely for solar thermal products. It is also the only national certification organization whose programs are the direct result of the combined efforts of state organizations and an industry association involved in the administration of standards.

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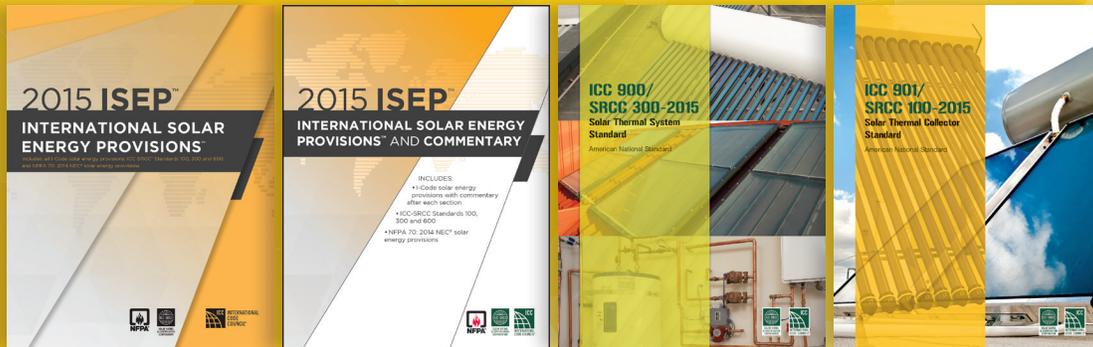
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