

# UNIFORM PERMIT SUBMITTAL GUIDELINES

## for

# SOLAR THERMAL AND SOLAR ELECTRIC INSTALLATIONS

General Requirement	Submittal Requirements	F.S./Code Section
<b>1. Permit Application</b>		
		FBCB 105.3
<b>2. Building/Equipment Layout Plan</b>		
		FBCB 106
<b>3. Structural Design</b>		
<ul style="list-style-type: none"> <li>Photovoltaic Roof Mounted Panel &amp; Solar Thermal Equipment</li> </ul>	Submit signed and sealed drawings & design calculations by licensed Professional Engineer or Registered Architect showing: <ul style="list-style-type: none"> <li>Documentation/verification exposed solar panel equipment meet wind loads.</li> <li>Documentation/verification support framing meets both uplift and lateral forces.</li> <li>Design of connections for the wind loads.</li> <li>Documentation/verification structural supports will accommodate additional dead loads.</li> </ul>	FBCR4402.11.2    FBCEB 404 FBCR4403.1.2    FBCEB 707 FBCR4403.7.8 FBCR4403.9.1 FBCR4403.9.2 FBCR4403.9.3 FBCR4403.10  Note: Dead Load compliance with the Exception contained in the FBCE Section 707.4.1 may be demonstrated by providing Dead Load criteria from the original plans.
<b>4. Roof Design</b>		(FBCG11 References Sec. 1512-1525 FBC)
<ul style="list-style-type: none"> <li>Building Integrated Photovoltaic (BIPV)</li> </ul>	Submit a Permit Application.	FBCR4402.1.3    FBCB 1512.3 FBCR4402.1.2.1    FBCB 1512.2.1 FBCR4402.5.2    FBCB 1516.2
<ul style="list-style-type: none"> <li>Photovoltaic Roof Mounted Panel</li> </ul>	Submit a detail of the roof penetration flashing	FBCR4402.3    FBCB 1514
	Submit clearance requirements.	FBCR4402.11.3.1    FBCB 1522.3.1
<ul style="list-style-type: none"> <li>Solar Thermal</li> </ul>	Submit a detail of the roof penetration flashing.	FBCR4402.3    FBCB 1514
	Submit clearance requirements.	FBCR4402.11.3.1    FBCB 1522.3.1

5. System Components		
<ul style="list-style-type: none"> <li>Solar Water Heater</li> </ul>	Submit FSEC Approval/Listing and System Reference Drawing.	FBCB 101 FBCR N1112
<ul style="list-style-type: none"> <li>Solar Water Heater using a PV powered pump</li> </ul>	Submit listing for PV panel and pump.	NEC Article 690
<ul style="list-style-type: none"> <li>Solar Swimming Pool Water Heater</li> </ul>	Manufacturers selected system installation manual/detail and system specifications.	FBCB 106
<ul style="list-style-type: none"> <li>Solar Swimming Pool Water Heater</li> </ul>	Submit FSEC Approval/Listing and System Reference Drawing.	FBCB 101 F.S. 377.705
<ul style="list-style-type: none"> <li>Photovoltaic System</li> <li>Electrical Engineer Requirements</li> </ul>	Plans must be signed and sealed by a Professional Engineer if: a.) The system has a value of more than \$50,000, or; b.) The systems has an aggregate service capacity of 600 amperes (240 volts) or more for a residential electrical system, or; c.) The system has an aggregate service capacity of 800 amperes (240 volts) or more for a commercial or industrial electrical system.	F.S. 471.003(h)
<ul style="list-style-type: none"> <li>Statutory Requirement</li> </ul>	FSEC will generate a System Certification Approval Form.	F.S. 377.705
<ul style="list-style-type: none"> <li>Electrical Diagram</li> </ul>	Submit electrical diagram designed in accordance to the National Electrical Code Article 690 Solar Photovoltaic Systems, in its entirety.	NEC Article 690
<ul style="list-style-type: none"> <li>Component Documentation</li> </ul>	FSEC Certification.	F.S. 377.705 NEC 110.3(b)
Abbreviations	FBCB - Florida Building Code, Building Volume FBCEB - Florida Building Code, Existing Building Volume FBCR - Florida Building Code, Residential Volume F.S - Florida Statute FSEC - Florida Solar Energy Center NEC - National Electric Code	