



Inspection Guide for Solar Pool Heating Systems in One- and Two-Family Dwellings

This document is a field inspection guide for solar domestic pool heating (SPH) systems. These inspection references detail most of the issues that relate to SPH systems during the inspection process.

All California Electrical Code (CEC), California Residential Code (CRC), California Building Code (CBC), California Mechanical Code (CMC) and California Plumbing Code (CPC) references are to the 2013 versions unless otherwise noted.

SOLAR POOL HEATING SYSTEM ELIGIBILITY			
SYSTEM	Criteria		Yes
		1. Major components installed match those of certified system?	
SOLAR POOL HEATING INSPECTION GUIDE			
	Guideline	Source of Guideline	Yes
ROOF	I. Roof penetrations/attachments are properly flashed	CBC Chap. 15, CRC Chap. 9	
SOLAR LOOP PIPING	I. Piping properly supported	CPC 313.0	
	II. Vacuum relief valve installed (if required by manufacturer)	See local ordinance.	
	III. Drain valves installed if the system is not self-draining	CPC 312.6	
	IV. Penetrations through structural members as per code	CPC 312.2	
	V. Penetrations through fire-resistant assemblies installed per code	CPC 1505.2	
	VI. System has adequate freeze protection	CPC 312.6	
CONTROL	I. Control and pump properly installed and bolted to pad	CEC 430 (IX), 690.17	
	II. Conductors between control and power source properly installed	CEC 430 (II)	
	III. Conductors between control and pump properly installed	CEC 430 (II), 690 (IV)	
	IV. Solar collector sensors protected from sun and weather	CEC 310.8 B, D(1), D(2)	
	V. Control relay rated higher than load for each output	CEC 430.83	