



INSPECTION GUIDE
SOLAR POOL HEATING ROOFTOP INSTALLATIONS
30 kWTH OR LESS, ONE- AND TWO-FAMILY DWELLINGS
CITY OF ENCINITAS DEVELOPMENT SERVICES DEPARTMENT
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This document is a field inspection guide for Solar 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.

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1. Major components installed match those of certified system.

A. ROOF

2. Roof penetrations/attachments are properly flashed (CBC Chap. 15, CRC Chap. 9)

B. SOLAR LOOP PIPING

3. Piping properly supported (CPC 313.1)
4. Vacuum relief valve installed (if required by manufacturer)
5. Drain valves installed if the system is not self-draining (CPC 312.6)
6. Penetrations through structural members as per code (CPC 312.2)
7. Penetrations through fire-resistant assemblies installed per code (CPC 1505.2)
8. System has adequate freeze protection (CPC 312.6)

C. CONTROLS

9. Control and pump properly installed and bolted to pad (CEC 430 (IX), 690.17)
10. Conductors between control and power source properly installed (CEC 430 (II))
11. Conductors between control and pump properly installed (CEC 430 (II), 690 (IV))
12. Solar collector sensors protected from sun and weather (CEC 310.8 B, D(1), D(2))
13. Control relay rated higher than load for each output (CEC 430.83)