

Form 338
 Technical
 Check Sheet

Solar Water Heater Processing Check Sheet

Key: P = Pass (ie Compliance with Building Code) F = Fail (ie Non compliance with Building Code) N/A = Not Applicable
Alternative Solutions = Notes are to be recorded at the end of this checklist

Building Consent No. _____ Date: _____

Property Address: _____

BC Official: _____ Signature _____

Guidance Notes SED = Specific Engineer Design

Ref No	Items to Consider	KEY	Comments	Alternative Solutions? Y/N
Floor Plan				
1	All spaces labelled			
2	Hot water cylinder location shown			
3	Smoke detectors complying with NZBC F7 indicated			
Roof Plan				
3	Show location of panels			
4	Dimension panels			
5	Dimension panels from roof edge where near gable			
Solar Heater Compliance:				
6	Listed on SIANZ website (www.solarindustries.org.nz)			
	Test certificate verifying compliance with AS/NZS 2712			
	Make..... Model.....			
B1 - STRUCTURE				
7	Building structure complies with Structural Standards G12/AS2 1.1.1(or SED structural solution)			
8	Weight kg/m ²Total weight of collector filled with fluid, frame and fittings (where more than 22kg/m ² SED structure)			
9	Roof Pitch less than 45° (or SED structural solution)			
10	Wind Zone – (Higher than VH requires SED solution)			
11	Solar collector area (greater than 4m ² requires SED solution)m ²			
12	Solar collectors parallel to roof pitch (Y / N) If N = then - no more than 45° to horizontal - no higher than H wind zone - collector plane = roof plane compass direction (SED Solution where outside of parameters above)			

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13	Location collector on the roof complies with Fig 2 G12/AS2			
Collector Fixing Details Included				
Storage Fixing				
14	Collector fixing details shown are correct for the actual roofing type.			
15	At least 4 points of support per collector, 8 for collectors mounted at a different pitch to the roof pitch.			
16	Outmost support within 200mm of collector edge			
17	Fixings do not compromise roof framing strength			
18	Collectors fixed directly to roof have spacer blocks G12/AS2 Fig 11			
19	Collectors fixed to roof material only G12 ? AS 6.3.3 Self Tapping Screws			
20	Concrete tile straps G12 / AS 6.3.4 or alternative tile fixing detail			
21	Elevated mounting G12 / AS2 6.4 & 6.5			
22	Collectors mounted at a different angle to roof pitch G12 / AS2 6.6			
Storage Tanks				
23	<input type="checkbox"/> New or <input type="checkbox"/> Existing			
24	For new tanks seismic restraint specified G12 / AS 6.11.4 (max 3604) or section 203 NZS 4603 (max 3506)			
Storage Tanks in the Roof Space				
25	Specific design seismic restraint (required in every case)			
26	Max 200L NZS 3604 or specific design			
27	Max 450L when installed to AS / NZ 3500 4			
28	Storage tank on roof has SED structural solution			
B2 - DURABILITY				
Roof Material				
29	Frame material			
30	Fixings			
31	Collector material			
32	Pipe flashing material			
33	Contact complies with NZBC G12 / AS2 Table 2			
34	Run-of f complies with NZBC G12 / As2 table 3			
35	Use of EPDM Boots with galvanized unpainted roofing complies with G12 / AS2 2.1.2			
36	Stainless not in contact with galvanized roofing			
37	Storage tanks in the roof space have access of sufficient dimension for removal / replacement			
Exposure Zone				
38	<input type="checkbox"/> Zone 1 <input type="checkbox"/> Zone 2 <input type="checkbox"/> Sea spray			
39	Fixings materials are suitable for use in exposure zone			

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40	Drain lines termination, relief valve detail described			
41	Relief valves do not discharge onto roofing / gutters			
42	Frost protection / insulation shown to all pipe work outside the insulated envelope of the building			
43	Insulation to exterior is waterproof and wrapped or similar to prevent premature degradation			
E2 – EXTERNAL MOISTURE				
44	All pipe penetrations detailed			
45	Sealing of fixing through roof			
G12 – WATER SUPPLIES				
46	Labeled pipe diagram appropriate to actual installation			
47	Polybutylene pipe systems used for circulating pipe work between collectors and storage tanks requires verification from piping manufacturer for suitability AS / NZS 2642 2			
Legionella Control				
48	Anti scolding method shown and stated temp set at 55 degrees celsius or 45 degrees celsius elderly / early childhood centres			
49	Temperature control devices G12 / AS1 6.5 9(Thermostats / energy cut outs)			
50	Relief valves G12 / AS1 6.6			
51	Storage water heater capacity of at least 50l/m ² of collector area.			
H1 – ENERGY EFFICIENCY				
52	New hot water cylinders NZS 4305			

Ref #	Brief description of Alternative Solution	Reason for acceptance