

SOLAR WATER HEATER APPLICATION CHECKSHEET & PROCESSING SHEET

Project Address: BC Number:

CCC Office Check by:	Date	Accepted? Yes / No	Time Spent

Applicant to complete shaded column. All blacked out areas are not applicable.

Building Elements / Items To Be Checked	Applicant check	CCC Acceptance Check	CCC Consent Officer Check	CCC Building Inspector Check	(CCC Only) Comments Including Means of Verifying, Endorsements, Conditions and Requirements
GENERAL INFORMATION					
Application form completed?					
Property evidence of ownership / certificate of title less than 6 months?					
Application Fee					
Project value: _____					
All alternative solutions identified with supporting information to demonstrate compliance with performance requirements					
Site Plan: <i>(CCC aerial photograph with property / buildings highlighted is sufficient)</i>					
Floor Plans: All levels – reasonable standard required. <ul style="list-style-type: none"> • All spaces labelled • Hot water cylinder location shown • Smoke detectors complying with NZBC F7 indicated 					
Roof Plan: <ul style="list-style-type: none"> • Show location of panels • Dimension panels • Dimension panels from roof edges 					
Recession angle compliance demonstrated where close to boundary					
PIM items checked <i>(CCC only)</i>					
B1 – STRUCTURE					
Year first constructed: _____					
Building structure complies with Structural Standards outlined in G12/AS2 1.1.1 (or SED structural solution)					
New trussed roofs – Solar collectors allowed for in truss design					
G12/AS2 – not more than 22kg/m ² collector weight (or SED structure)					
Storage tank not on roof (or SED structural solution)					
Storage tanks in roof space 200l max. to 3604.1999 section 14 450l AS/NZS 3500.4.2003 section 5 (or SED structural solution)					

Compliance Reference: ✓ = OK, A = Documents revised by applicant, Q = Queried, I or - = Not applicable, S = Specialist Reviewed

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Roof pitch less than 45° (or SED structural solution)					
Wind zone – (VH or higher requires SED solution)					
Solar collector area (greater than 4m ² requires SED Solution)					
Snow load – altitude less than 40m					
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)					
Location collector on the roof complies with Fig 2 G12/AS2					
Collector Fixing Details Included					
Collector Fixing: - Collector fixing details shown are correct for the actual roofing type. - At least 4 points of support per collector - Outermost support within 200m of collector edge. - Fixings do not compromise roof framing strength. - Collectors fixed direct to roof have spacer blocks (refer to G12 / AS2 Fig.11) - Collectors fixed to roofing material only – Fixings comply with G12/AS2 6.3.3 – Self Tapping Screws - Concrete tile straps to G12 / AS2 6.3.4 - Elevated mounting complies with G12 / AS2 6.4 and 6.5 - Collectors mounted at a different angle to roof pitch comply with G12 / AS2 6.6.					
Storage Tanks: - Labelled as existing or new. - For new tanks seismic restraint specified and complies with NZBC G12 / AS1 6.11.4 (max 3604) or, section 203 of NZS 4603 (max 3506)					
Storage Tanks in the Roof Space: - Specific Design Seismic Restraint required - Max 200L NZS 3604 or specific design - Max 450L when installed to AS/NZS 3500.4					
B2 - DURABILITY					
Roof material					
Frame material					
Fixings					
Collector material					
Pipe flashing material					
Contact complies with NZBC G12/AS2 Table 2					
Run-off complies with NZBC G12/AS2 Table 3					
Use of EPDM Boots with galvanised unpainted roofing complies with G12/AS2 2.1.2					

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Stainless not in contact with galvanised roofing					
Storage tanks in the roof space have access of sufficient dimension for removal / replacement					
Exposure Zone (NZS3604 Section 4) <input type="checkbox"/> Zone 1 <input type="checkbox"/> Sea spay zone Fixings materials are suitable for use in the exposure zone					
Relief valves do not discharge onto roofing / gutters					
Frost protection / insulation shown to all pipework outside insulated envelope.					
Insulation to exterior is waterproof and wrapped or similar to prevent premature degradation					
E2 – EXTERNAL MOISTURE					
All pipe penetrations detailed					
Sealing of fixing through roof					
G12 – WATER SUPPLIES					
Solar Heater Compliance: - listed on SIANZ website www.solarindustries.org.nz or, - test certificate verifying compliance with AS/NZS 2712					
Legionella Control: Method of Legionella control is described and complies with G12AS2 3.5					
Safety Devices: - Anti scalding Method stated and temp set at 55 degrees celsius or 45 degrees celsius elderly / early childhood centres - Temperature control devices comply with G12 / AS1 6.5 (Thermostats / Energy cut outs) - Relief valves comply with G12 / AS1 6.6					
Relief valves and open vents insulated					
Storage water heater capacity of at least 50l per m ² of collector area					
New hot water cylinders comply with NZS 4305					
H1 – ENERGY EFFICIENCY					
All hot water pipework insulated					
New hot water cylinders comply with NZS 4305					
CCC SPECIALIST OFFICER:					
Name	Signature	OK TO CONTINUE PROCESSING		<input type="checkbox"/>	

