Gold Coast City Council Solar Check List

HOT WATER TANK	✓	✕	NA	Requirements	Reference
Unobstructed access to valves and elements				Must be able to service element and valves without moving HWS	AS3500.4 5.3.2
Isolation valve accessible from ground or floor level				Must be able to isolate HWS without using a ladder	AS3500.4 5.9.3 (a)
TPR valve drain is copper or suitable material				Copper, not garden hose or electrical conduit	AS3500.4 5.12.1 (a)
TPR Valve drain discharges to the correct location				Not next to footing, not at feet, not onto pavement	AS3500.4 5.12.3
Correct tempering valve is fitted				High performance valve for both solar and heat pumps	Refer to manufacture
Tempering valve is in the correct location				Not on 2nd story roof, can be within reach in manhole	DIP News flash 456
Pipework is secured correctly				All pipework must be clipped as per AS3500.4 table 4.1	AS3500.4 table 4.1
Cold water connection to tank, not greater than 6 m of 15 mm pipework (3 metres if ½" copper)				All new pipework must comply with current standards	AS3500.1 3.5
Is the base of the storage tank supported correctly				As per manufactures requirements or AS3500.4	AS3500.4 (5.4.5) & (5.5.3)
Insulation as per Section 8 AS3500.4				Lag all pipes and valves within 500 mm of tank (see section 8 for more details)	AS3500.4 Section 8
Insulation is UV stable and weather resistant if external				If external must be weather resistant or protected	AS3500.4 8.3.1
Insulation is 13 mm or R0.3 or greater				Must be 13mm or minimum of R0.3	AS3500.4 8.2
PTR valve is insulated				Valve must be insulated to R0.2 or greater	AS3500.4 Section 8
Cold water inlet is insulated and at least 500 mm of pipework, including valve if within 500 mm				Elbow and pipe must be insulated for the first 500mm	AS3500.4 Section 8
Hot water outlet is insulated and at least 500 mm of pipework, including valve if within 500 mm				Elbow and pipe must be insulated for the first 500mm	AS3500.4 Section 8
500 Kpa valve fitted				500 Kpa reduction or limiting valve must be fitted	AS3500.1 3.3.4
Hot water to sanitary fixtures does not exceed 50º C				Max temperature to sanitary fixtures as AS3500.4 1.9.2	DIP News flash 456
Plumber holds solar endorsement				Must have solar endorsement on licence to do **ANY** work on solar or heat pump	Plumbing and Drainage Regulation 2003 Schedule 3 # 6
All work complies with Plumbing and Drainage Act 2002, AS3500.1, AS3500.4 and all relevant standards and codes				Must ensure the work complies with the Standard Plumbing and Drainage Regulation	Plumbing and Drainage Act 2002 82 (1)
SPLIT SYSTEMS					
Flow and return lines are to be copper				Must be copper (or not inferior to copper)	AS3500.4 6.7.2
Flow and return pipework has correct insulation				Must be rated to 150º C or greater (must be fit for purpose)	Refer to manufacture
Correct clips have been used for flow and return pipework				Must be metal or rated to 150º C or higher (must be fit for purpose)	Refer to manufacture
HEAT PUMPS					
Condensate drain discharges the correct location				Not next to footing or not onto pavement (same as TPR requirements)	AS3500.4 5.12.3