SECTION J5 REPORT

Project: **80 Prinsep Street, Norseman**
Subject: **BCA Section J5 Report**
Date: 22/10/2018
Referenced drawings: Mechanical Services - NJM Design M01-M03
Checked By KCK
No. Sheets: 1
Status: **Tender**
Job No: 5460

This report demonstrates how the above project meets minimum compliance for Section J5 of the NCC. The NCC requirements listed below are a summary only. Refer to Section J5 of the current NCC for the full requirements.

		NCC Requirements	Compliant? (Y, N, N/A)	Comments
Section J5.1: Blank				
Section J5.2: Air-Conditioning Systems				
(a)	**(i) A**	Air conditioning systems must be capable of being deactivated when the building is not occupied	Yes	Occupants can switch on and off units in each zone
	(i) B	When serving multiple zones, the system must not reheat air by more than 7.5K, or mix heated and cooled air	N/A	Not applicable to this development
	(i) C	If over 35 kWr, must have an outdoor air economy cycle	N/A	Not applicable to this development
	(i) D	If the system contains more than one water heater, chiller or water coil, it must be capable of stopping the water flow to those not operating	N/A	Not applicable to this development
	(i) E	Except for a packaged systems, air conditioning system must have a variable speed fan if its supply air quantity can be varied	N/A	Not applicable to this development
	(i) F	When serving class 3 units air conditioning system must switch off when external doors are open	N/A	Not applicable to this development
	(ii)	All motorised outside and return air dampers are to be closed when the air conditioning systems are deactivated	N/A	Not applicable to this development
(b)		Fan power is to comply with Specification J5.2a - applies to ducted systems (all flow rates)	Yes	Selected units comply
(c)	**(i)**	Water pumps (>2L/s) forming part of an air-conditioning system must be in accordance with Table J5.2	N/A	Not applicable to this development
	(ii)	Water pumps (>3kW and >2L/s) part of an air-conditioning system must be variable speed	N/A	Not applicable to this development
	(iii)	A spray water pumps in a CCC cooler or evaporative condenser must not use more than 150W per L/s water circulated	N/A	Not applicable to this development
(d)	**(i)**	All ductwork to be sealed and insulated in accordance with Specification J5.2b	Yes	Insulation to comply
	(ii)	Insulation for pipes, vessels, heat exchangers or tanks must meet MEPS or Specification J5.2c for insulation, whichever relevant.	Yes	Insulation to comply
(e)		Space heating must be in accordance with Specification J5.2d	Yes	Heat pumps used
(f)		Energy efficiency ratios must comply with Specification J5.2e	Yes	Packaged equipment <65kWr deemed to comply based on MEPS
(g)		Except for dwellings, a time switch must be provided to control air conditioning systems larger than 10 kWr, heating systems more than 10kW.	Yes	Time switch provided
Section J5.3: Mechanical Ventilation Systems				
(a)	**(i) A**	Mechanical ventilation systems must be capable of being deactivated when the building is not occupied	Yes	Occupants can switch on and off units in each zone
	(i) B aa	Not provide ventilation in excess of 20% more than the minimum outside air quantity required by Section F4, unless reclaiming energy.	Yes	Minimum AS1668 rates provided
	(i) B bb	Where the number of square metres per person is 1 or less and the air flow rate is more than 1000 L/s, an energy reclaiming system must be included.	N/A	Not applicable to this development
(b)		Fan power is to comply with Specification J5.2a (>1000 L/s)	Yes	Selected units comply
(c)		Except for dwellings, a time switch must be provided to control ventilation systems larger than 1000 L/s.	N/A	No systems larger than 1000 L/s
Section J5.4: Miscellaneous Exhaust Systems				
(a)		A miscellaneous exhaust system larger than 1000 L/s with a variable demand, must have the capacity for the operator to vary the speed or stop the motor.	Yes	Selected units comply