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**Architecture**  
**Interior Design**  
**Urban Design**  
**Strategy**

**BATESSMART™**

**Little National**  
**48 Honeysuckle Dve**  
**Newcastle**

S12109

### **Ecologically Sustainable Development (ESD) Statement**

It is stated that the proposed design responds to sustainable building principles and best practice, and improves environmental performance through energy efficiency design, technology and renewable energy.

The proposed design has focused on reducing the demand on resources via the use of simple passive strategies, which also offer excellent amenity to future residents.

These passive strategies are supplemented with building systems to further reduce ongoing resource use.

The dwellings have been oriented to provide a good level of solar access in mid winter, providing passive heating and improving daylight penetration in the winter months.

Material selection is intentionally robust, reducing ongoing maintenance requirements.

Building fabric is to be specified with higher than industry standard insulation values to reduce heat transfer, improving thermal comfort.

Wide eaves and horizontal projections are proposed to reduce solar gains.

Rainwater reuse tanks are to be installed to reduce water consumption.

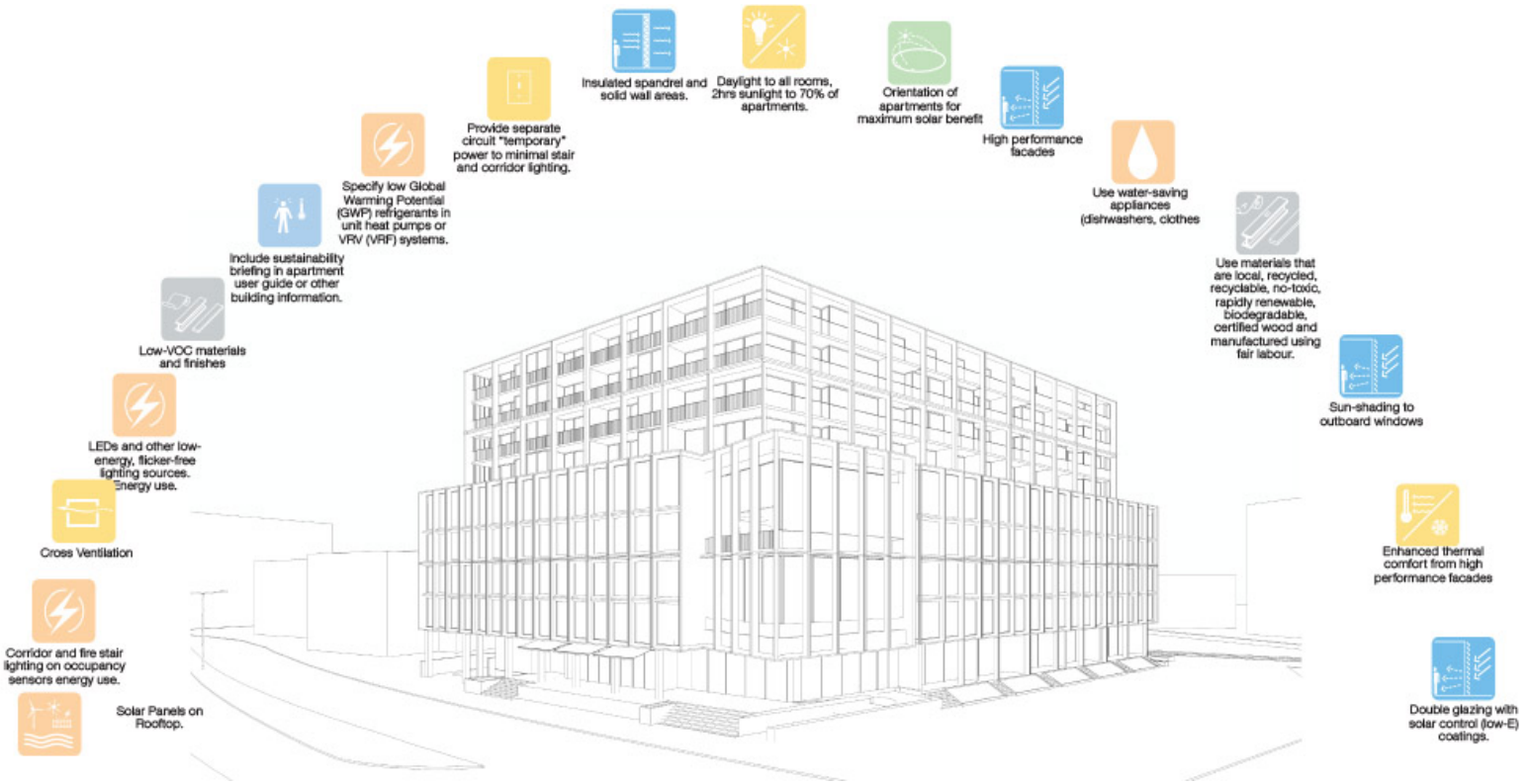
High efficiency appliances will be specified to reduce on-going water and power consumption.

<b>4U</b>	<b>ENERGY EFFICIENCY</b>			
<b>4U-1</b> p127	<b>Objective:</b> Development incorporates passive environmental design.			✓
	Adequate natural light is provided to habitable rooms (see 4A Solar & Daylight Access)		YES	
	Well located, screened outdoor areas are provided for clothes drying		YES	
<b>4U-2</b> p127	<b>Objective:</b> Passive solar design is incorporated to optimise heat storage in winter & reduce heat transfer in summer.			✓
	A number of the following design solutions are used: Use of smart glass or other on north & west elevations Thermal mass maximised in floors & walls of north facing rooms Polished concrete floors, tiles or timber rather than carpet Insulated roofs, walls & floors. Seals on window & door openings Overhangs & shading devices such as awnings, blinds & screens		YES	
	Provision of consolidated heating & cooling infrastructure is located in a centralised location (eg basement)		YES	
<b>4U-3</b> p127	<b>Objective:</b> Adequate natural ventilation to minimise the need for mechanical ventilation.			✓
	A number of the following design solutions are used: Rooms with similar usage are grouped together Natural cross ventilation for apartments is optimised Natural ventilation is provided to all habitable rooms & as many non-habitable rooms, common areas & circulation spaces as possible		YES	

*Extract from SEPP65 & ADG checklist*

<b>4V</b>	<b>WATER MANAGEMENT &amp; CONSERVATION</b>			
<b>4V-1</b> p129	<b>Objective:</b> Potable water use is minimised.			✓
	Water efficient fittings, appliances & wastewater reuse are incorporated		YES	
	Apartments are individually metered		YES	
	Rainwater is collected, stored & reused on site		NA	
	Drought tolerant, low water use plants are used within landscaped areas		YES	
<b>4V-2</b> p129	<b>Objective:</b> Urban stormwater is treated on site before being discharged to receiving waters.			✓
	Water sensitive urban design systems are designed by a suitably qualified professional		NA	
	A number of the following design solutions are used: Runoff is collected from roofs & balconies in water tanks and plumbed into toilets, laundry & irrigation Porous & open paving materials is maximised On site stormwater & infiltration, including bio-retention systems such as rain gardens or street tree pits		NA	
<b>4V-3</b> p129	<b>Objective:</b> Flood management systems are integrated into site.			✓
	Detention tanks are located under paved areas, driveways or in basement car parks		NA	
	On large sites, parks or open spaces are designed to provide temporary on site detention basins		NA	

*Extract from SEPP65 & ADG checklist*



*Summary of the sustainable strategies*