

JCU's newest student accommodation is Burralga Yumba located at JCU Townsville, Bebegu Yumba campus, Douglas.

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and to mitigate the urban heat island effect through high-reflectance roofs
(except where this might cause glare to residents), rooftop garden, solar panels and ditional supplementary cementitious light coloured pavement, planted areas and shaded areas.

- · Responsibly sourced timber and steel
- Structural design elements to reduce concrete volume such as through pre-tensioned slabs.

Construction and material selection

Additionally, materials used within the indoor spaces of Burralga Yumba were selected to optimise indoor air quality. This is accomplished by reducing or eliminating the presence of materials, adhesives and sealants (among others) which emit gasses or volatile organic compounds which have adverse effects on human health. Air quality testing after construction was undertaken to ensure that spaces are performing to a high standard.

Water efficiency and landscape design

Achieving high levels of indoor and outdoor water efficiency was an important focus for the development. Landscape plant selections have focused on the use of native, adapted, and drought-tolerant plants which significantly reduces the need for irrigation while better integrating the building site into its natural surroundings and attracting native wildlife.

Burralga Yumba will further reduce potable water consumption by suppling landscaping irrigation requirements 100% with recycled water once this connection is available.

Energy efficiency

Burralga Yumba is energy efficient, and includes the following design features:

- Renewable energy: provided by an 87 kW rooftop solar panel system
- Passive design: maintaining comfortable indoor temperatures through high performance glass, insulation and shading
- Air conditioning using the JCU Townsville, Douglas 12.5 megalitre energyefficient chilled water air conditioning system
- · Efficient LED lighting
- A domestic water system with highly efficient propane-fired instant hot water heaters.