



Case Study

IGLU - Bondi Junction



Product Range: Passive House - Architectural Timber

A stunning-looking modern student accommodation building with commercial kitchens, meeting rooms, and courtyard, built to Passive House principals and with a sustainability agenda.

Builder: Icon

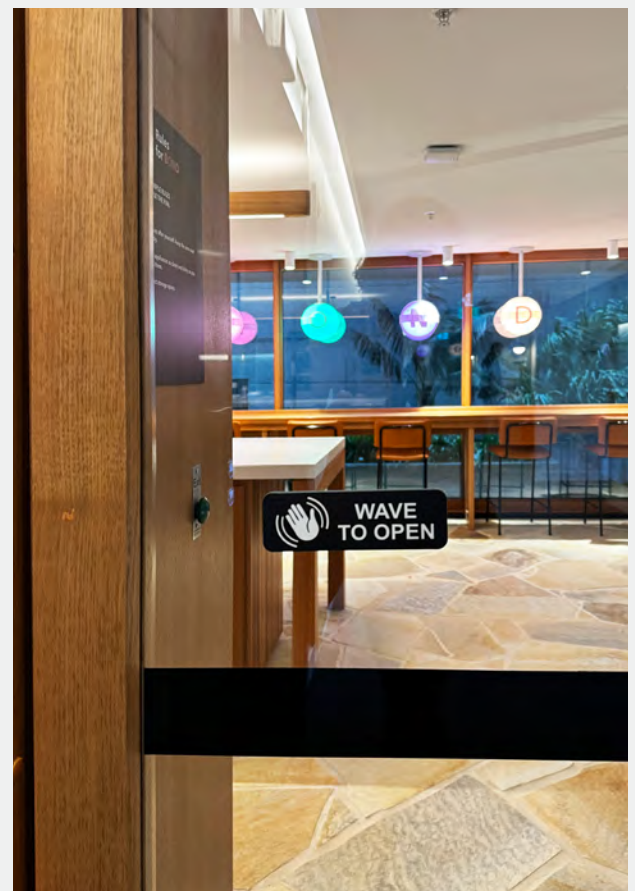
'Being locally manufactured enabled us to make design changes to deal with building challenges as they arose.'



Challenges

N5 rated windows and doors, dealing with low threshold, airtightness, automation, water ingress and drainage, and balancing Passive House principals of airtightness with automation and disability access.

Manufacturing, then dismantling larger individual elements into components manageable for transport, re-assembling and glazing onsite, partly with sound-proof, partly with assault glass, and low-E glass, in double-glazed IGU's.





Solution

High-performing Paarhammer Passive House window systems with 78mm thick timber framing, multipoint locking and dual levels of seals, tested to N5 rating.

Using the low Alumat threshold for the automated doors and sliding doors ensured both airtightness when closed and disability access as there is no step required. Alumat is engineered in Germany, and accredited to Passive House Component.

Timber frames were finished with Adler 3-coat lasur which is low-VOC, featuring highly reflective pigments for UV-stability, and low maintenance requirements.

Products are tested, approved and compliant to all relevant AS, and custom-made in Australia.

