

LOOKING SOUTH WEST ACROSS THE SITE

The D4 House is an extremely compact, courtyard residence with a variety of floor plan configurations located within a fixed courtyard of 170sq.m. This flexibility allows occupancy by different family arrangements and an increase housing density. The most important intent of this design is to provide affordable housing and the opportunity of home ownership in an expensive housing market.

Taking inspiration from traditional Chinese courtyard houses and Jorn Utzton's klingo experimental housing, D4 is a mix of internal & outdoor spaces for private use. These spaces can be Stu connected to create interaction between neighbours or members of an extended family. Its modular design grows around a standard wet area module that contains the kitchen/bathroom/ 1 B laundry. It can expand within its courtyard boundary by adding standard modules as the occupants needs change. These options range between a single person studio that can grow to a 3 2 B bedroom house. Each configuration deliberately pushes the boundaries of what is possible with smaller living space & an important aspect of this is the larger feeling of space created by each 3 Be room being intergrated into different courtyards.

The different sized configurations means a diversity of people can activate what is essentially a small neighbourhood within a neighbourhood, with houses running along a central street that combines traffic and communal outdoor activity areas for the occupants. When suitable parking is available along the perimeter of the site, the central street can be fully turned over to activity & pedestrian movement.

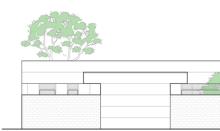
This redirection away from high embodied energy construction and the significant environmental impacts of urban sprawl requires:

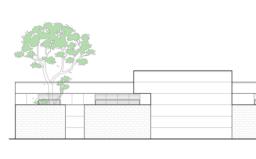
Small floor areas Pasive solar energy High performance materials Progressive planning policies

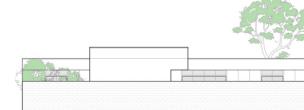
- the greatest energy saving that can be made is the reduced embodied energy of construction.
- Renewable energy technologies PV, grey water, electric car charging stations reduce emissions & lower heating & cooling costs.
 - northern winter sunlight can be achieved no matter which direction the house is orientated.
 - Affordable, highly insulated walls, roofs and triple glazing.
 - zoning changes, car bay concessions, restricted vehicle sizes and transport design drives lifestyle changes.



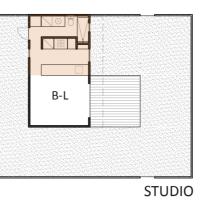












33sq.m internal 13sq.m deck

CONFIGURATIONS

AREAS:

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o of residences	= 10
otal Site Area	= 3,594sq.m
rea Per Residence	= 170sq.m
otal Built Area	= 1,700sq.m
pen Space	= 1,894sq.m

COSTINGS:

= \$3,500/sq.m Construction Rate Based on an initial residence. Calculated on internal residence area. Rate includes building, deck, hardscape, courtyard walls (incl. GST).

udio	= \$115,500
Bedroom	= \$161,000
Bedroom	= \$206,500
Bedroom	= \$252,000

Additional Modules = \$50,000

Calculated at \$4000sq/m for additional modules. 12.5sq.m each.





28sq.m deck





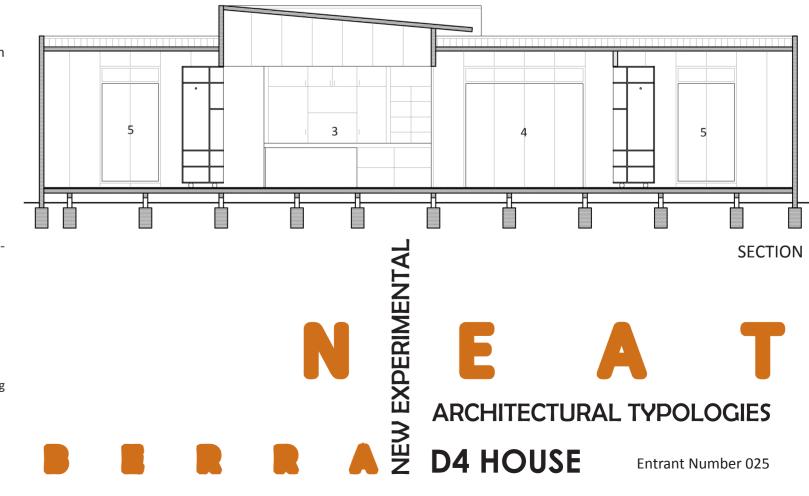








VIEWS FROM VARIOUS PERSPECTIVES



MATERIALS:

- Sub Structure: concrete & steel
- Floor: hardwood
- External Walls: R9 FC lined sandwhich panels - flushed & paint finished
- Internal Walls: FC flushed & paint finished
- Cabinetry: Plywood storage dividers. Kitchen as selected by owner
- Doors: Solid core plywood
- Door/Windows: Triple glazed aluminium framed
- Ceiling: Plywood on battens
- Roof: 120mm th'k Kingspan R5.8 colourbond snadwhich panels
- Wall & Roofs are structurally load bearing & require no additional structure