

## Specification List

56 Totara Street will be a certified passive house (classic), which is the highest performance passive house standard. A classic passive house is required to meet an air loss of less than 0.6 per hour.

<https://passivehouse.nz/>

The house has been architecturally designed by Sam Connell (Figure and Ground)

<https://figureandground.co.nz/>

The passive house architecture has been PHPP modelled by Elrond Burrell (NZ Passive House Board)

<https://via-architecture.net/>

The house will be built by established and experienced Christchurch building company Simon Construction through their passive house business, Atamai Structures. See attached for video of how it is done, with walls made in factory conditions before being assembled onsite.

<https://www.atamai.nz/>

### EXTERIOR:

#### Building envelope performance:

- Fully insulated concrete slab with 50mm thick XPS insulation to the sides and 270mm thick insulation underneath – equivalent to R9.7
- 185mm wide external insulated timber framed walls - R5.5
- Roof insulation – R9.4
- High performing Weathershield Triple Glazed Warmcore Aluminium/uPVC windows and doors –

#### Exterior claddings:

- Painted timber weatherboards
- Stained Hermpac cedar cladding
- Long run metal roofing

### INTERIOR:

#### Building ventilation/heating/cooling:

- Zehnder Q350 mechanical heat recovery ventilation system ducted throughout so fresh air is provided 24/7 without losing heat
- High wall heatpump in living area
- Mitsubishi Hydrabox to heat hot water –  
<https://www.mitsubishi-electric.co.nz/hydronic-hot-water-heat-pump/c/10750/ecodan-air-to-water-hydronic-heat-pump-with-hydrobox>

#### Electrical:

- Full LED lights throughout
- Photovoltaics panels to power the home
- Alarm security system including external cameras

#### Flooring:

- German - Haro Engineered Timber Flooring
- Carpet – Cavalier Bremworth Tussore colour Pitch, 100% wool, extra heavy duty textured loop pile from McKenzie and Willis

**Kitchen:**

- Engineered Stone benchtop
- High quality Prime timber joinery units
- Undermount sink unit
- Stone splashbacks
- LED strip lighting throughout
- Bosch German appliances
- Full walk in pantry with open shelving and drawers

**Laundry**

- Full cabinetry and sink unit with engineered stone benchtop

**Living room**

- Coffered ceilings with led strip lighting
- Recessed curtain tracks for seamless ceiling finish

**Media room**

- Fully integrated timber cabinetry for TV unit
- Dimmable lighting

**Stairwell**

- Feature pendant
- Carpet stairs

**Garage**

- Fully lined and insulated
- Insulated auto garage door

**Bathrooms**

- Fully tiled bathrooms with heated floors
- High end Primo vanities and mirror cabinets
- Greens NZ made tapware

**Master bedroom**

- Full walk in wardrobe with custom cabinetry
- LED strip lighting
- Carpet
- Painted walls

**Bedrooms**

- Painted walls
- Carpet
- Full wardrobes

**Window treatments**

- Curtains
- Roll down blinds

**Landscaping**

- Entry and boundary fences made up of timber and plastered concrete block
- Ashby automatic entry gates for both cars and front door
- Hardwood decking

- Exposed aggregate patio and paved driveway
- External lighting
- Readylawn or Smartlawn
- Planted garden beds
- Clothesline
- Mailbox