NatHERS Zoning Examples 2014

For use with software using Chenath engine V3.13



An initiative of the Commonwealth, state and territory governments



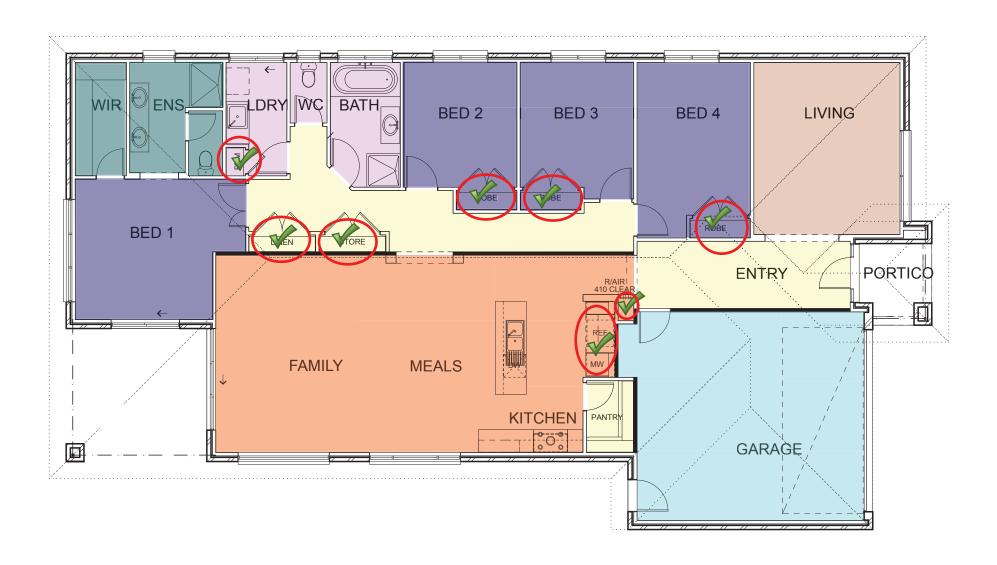


Table 2: Software zone types conditioning of spaces

DDEL

NatHERS Benchmark Study House 1

Living Kitchen/Living Day-time Unconditioned Bedroom Night-time Garage Small air spaces



7.6.1 Small air spaces such as small pantries, built in robes, plumbing voids, wall voids, return air ducts and other small non-habitable areas are included in the zone that they are attached to or located in. A small pantry is one that cannot be walked into.

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Table 2: Software zone types conditioning of spaces and 7.6 - Small air spaces

DDEL

NatHERS Benchmark Study House 1





Table 2: Software zone types conditioning of spaces

Mathers Benchmark Study House 2

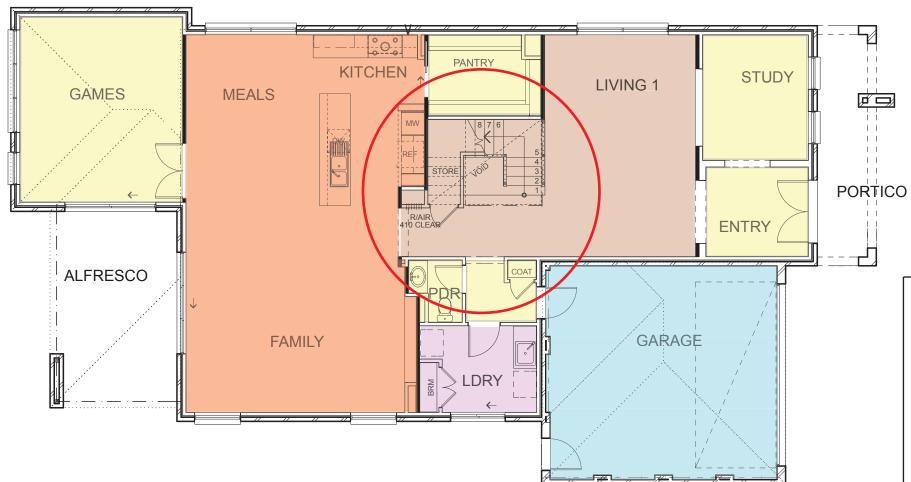




Table 2: Software zone types conditioning of spaces

NatHERS Benchmark Study House 2

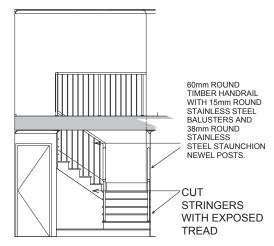




7.2 A zone is defined as a space or group of spaces within a building that are expected to be at a uniform temperature and are defined by permanent boundaries. For example a living area cannot be split into two zones with different occupancies by artificially including an internal wall with or without openings as a boundary between the two areas.

7.6.2 Small air spaces such as storage areas, powder rooms and WC's located under and for all practicable purposes the stairs form the ceiling, are included in the same zone as the staircase.

Stair detail



Modelling note:

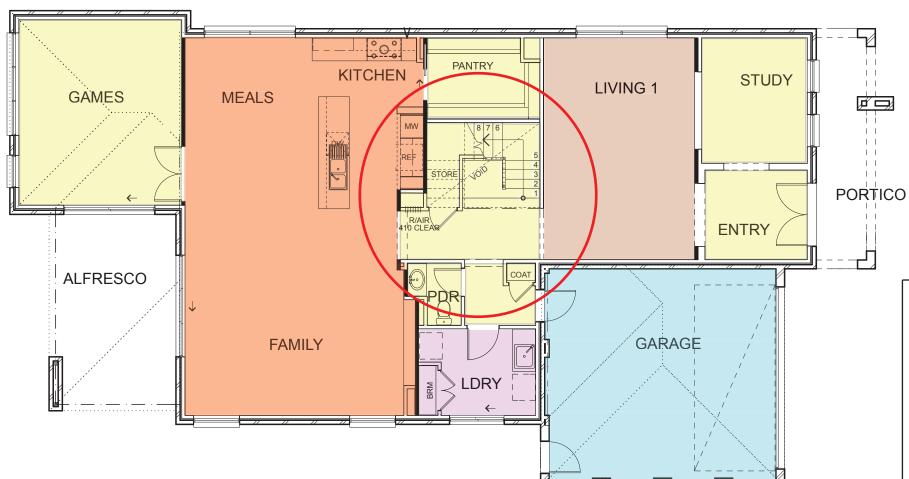
In this case the stairwell is included in the Living 1 zone as it has exposed stringers and a open balustrade, subsequently there is no permanent boundary wall between the stairwell and Living 1

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Table 2: Software zone types conditioning of spaces. Clause 7.1 and 7.6.2

Mathers Benchmark Study House 2

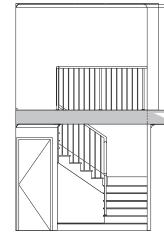




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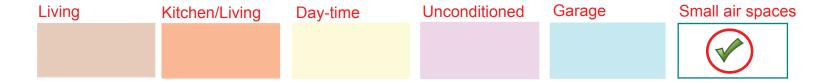
Modelling note:

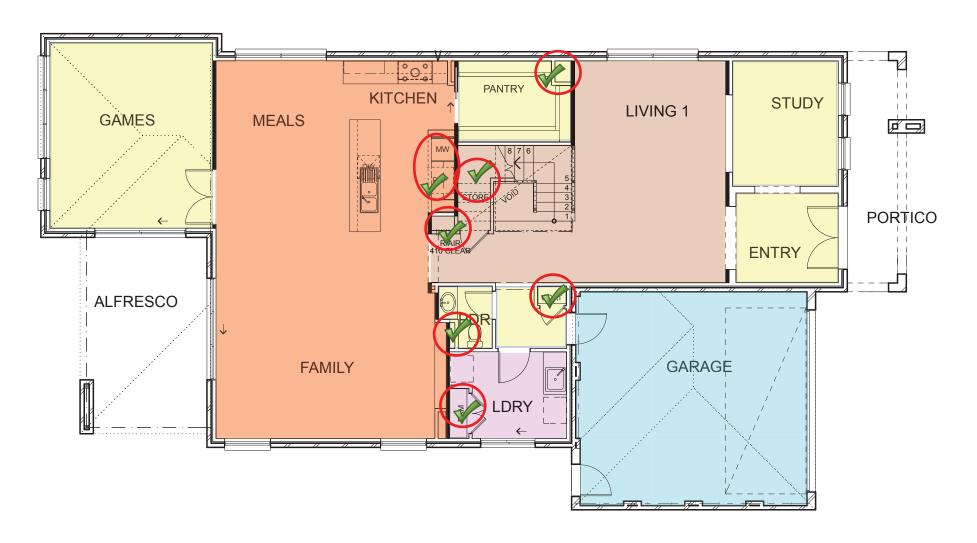
The stairwell becomes a seperate zone as there is a wall defining a permanent boundary between the stairwell and Living 1.

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Table 2: Software zone types conditioning of spaces. Clause 7.1 and 7.6.2

Nathers Benchmark Study House 2





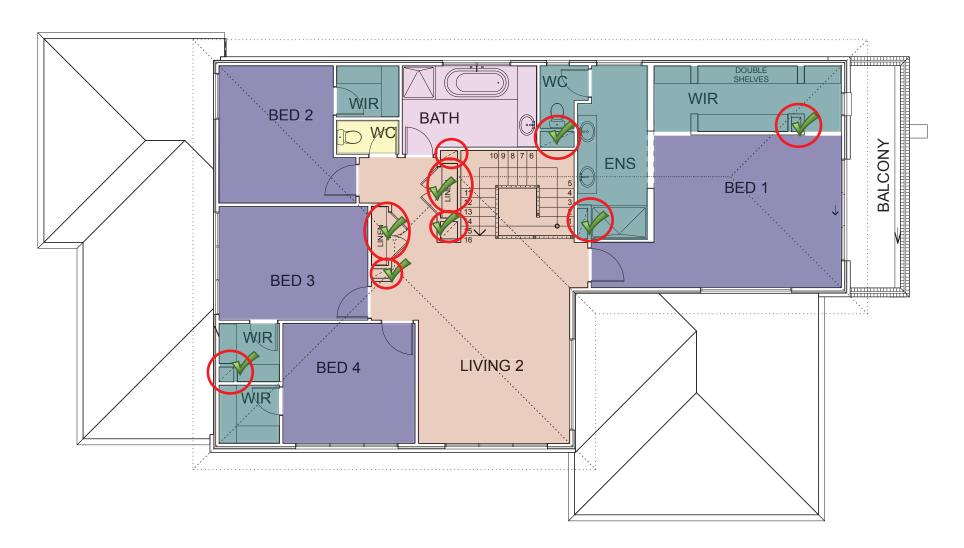
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7.6.2 Small air spaces such as storage areas, powder rooms and WC's located under a stair case and for all practicable purposes the stairs form the ceiling, are included in the same zone as the stair case.

Clause 7.6 - Small air spaces

NatHERS Benchmark Study House 2

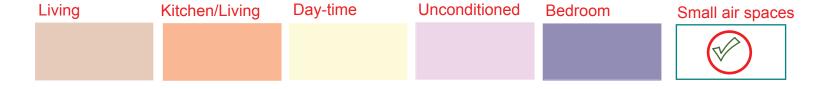


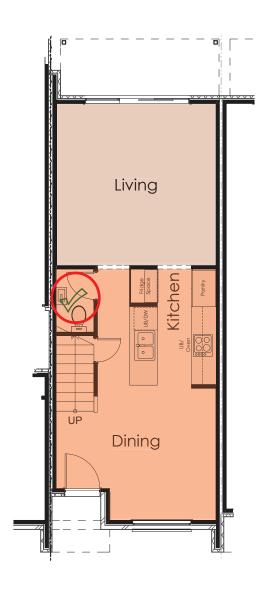


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Clause 7.6 - Small air spaces

NatHERS Benchmark Study House 2







7.4.2 All dwellings to be modelled **must** contain at least one unconditioned zone **excluding** the garage. This would normally be a bathroom, laundry or WC. If the laundry, WC and bathroom do not have an external window or door and only have internal walls and doors, then the smallest of them **must** still be selected as the unconditioned area.

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7.6.2 Small air spaces such as storage areas, powder rooms and WC's located under a stair case and for all practicable purposes the stairs form the ceiling, are included in the same zone as the stair case.

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Table 2: Software zone types conditioning of spaces

MODEL NatHERS Benchmark Study House 3



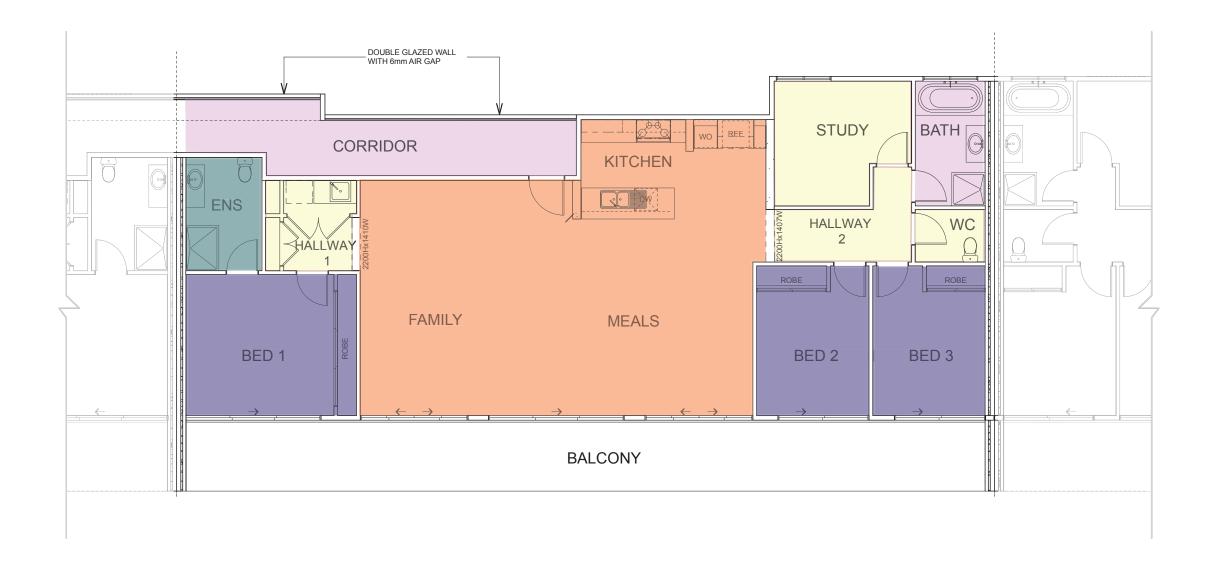
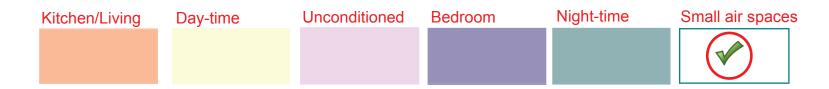
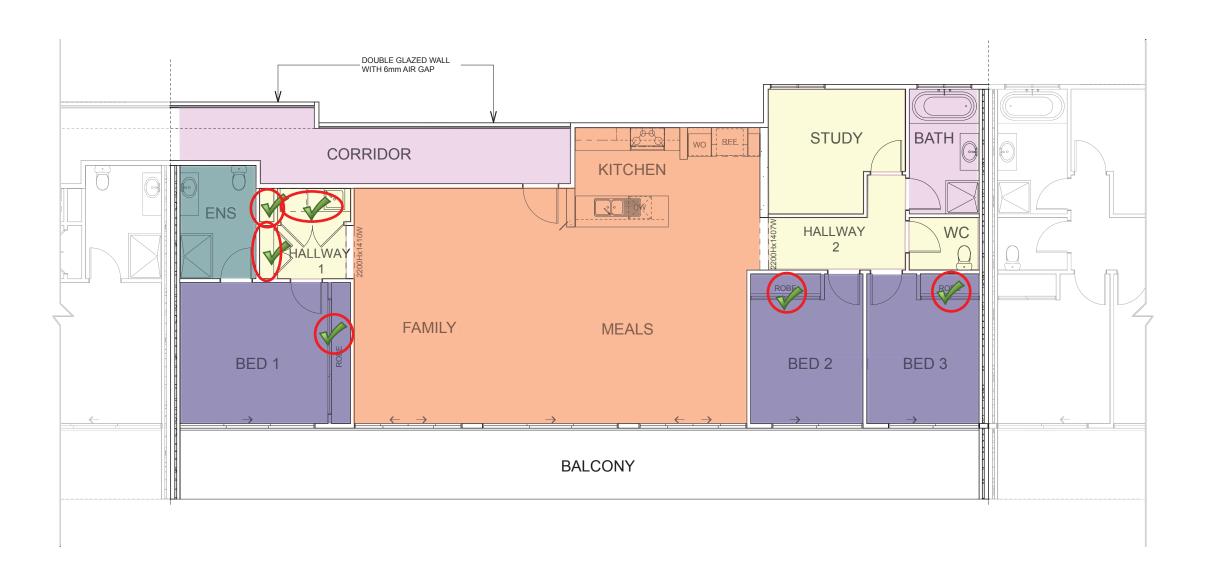


Table 2: Software zone types conditioning of spaces Table 2

NatHERS Benchmark Study House 4





7.4 Hallways and corridors are circulation areas that allow access to other zones, they are modelled as a "daytime" zone - See Table 2. Class 2 building common area corridors are defined and detailed in Table 4.

Table 4: Apartment walls shared with corridors with fully glazed external walls (i.e. corridors with the major wall being fully glazed).

Model the external corridor as an unconditioned zone. Where the corridor zone is longer than the apartment wall, it is to have an external wall the same length as the apartment wall and internal walls to a neighbour at either end. **7.6.1** Small air spaces such as small pantries, built in robes, plumbing voids, wall voids, return air ducts and other small non-habitable areas are included in the the zone that they are attached to or located in. A small pantry is one that cannot be walked into.

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Clause 7.4 Hallways and corridors, Table 4 Apartment walls shared with common public areas. Clause 7.6.1 Small air spaces

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