



	BASE	BETTER	BEST
<b>1 FLOORS</b>	Fully insulated slab, with continuous underslab and full height perimeter insulation, or suspended floor system. Refer Energy for Space Heating Energy Modelling thresholds.		
Recommendations	50mm VH grade XPS full under slab and edge insulation Suspended Floor system with wind wash layer where fibrous insulation used.	<b>Base +</b> Suspended floors >R3.5 and one layer of insulation continuous across bottom of joists. For Slabs, specify low carbon concrete.	<b>Better +</b> Suspended floors >R4.0
<b>2 WINDOWS</b>	>R0.55 Windows installed in line with the wall insulation. Thermally broken aluminium or non-conductive uPVC or timber frames, Low E, Argon filled with thermal spacer, Double glazing, installed with tapes to ensure airtightness, instead of use of a weather seal.	<b>Base +</b> >R0.75 Windows.	<b>Better +</b> >R1.0, Double or Triple glazed windows depending on zone and energy modelling.
Recommendations	Refer SuperWindow recessed details. (up to 20% better performance).	<b>Base +</b> High performance window joinery or non-conductive uPVC or timber frames, consider up-spec glazing.	<b>Better +</b> Triple Glazing.
<b>3 WALLS</b>	140mm frame or 90mm framing + internal services cavity (45mm horizontal battens) GIB fix Framing System or equivalent to reduce thermal bridging. All non-essential dwangs/nogs omitted. Structural Cavity battens (40mm) and Rigid Air Barrier.	140mm framing + internal services cavity with other details as for Base. Or EcoPanel Or SIPs (Structural Insulated Panels) or other equivalent wall system.	
Recommendations	Construction R Value >R3.2 (refer to Design Guide for further details).	Construction R Value >R4	Construction R Value >R4.5
<b>4 ROOF</b>	Warm roof or traditional cold roof with adequate roof ventilation and Insulation - Refer Energy for Space Heating Energy Modelling thresholds.		
Recommendations	R6.6 or less if compliance confirmed by using the calculation method or modelling1. Insulation installed in layers eg. Between structural members (rafters or trusses) and an additional layer above or below.	Recommend an air tightness layer and a 90mm ceiling services cavity, under the trusses or rafters, which can be insulated also after services installed.	
<b>5 AIRTIGHTNESS</b>	< 3 air changes/hr. Blower door test to confirm. Note to be included on Building Consent Documentation specifying airtightness and testing required.	<b>Base +</b> < 2.0 air changes/hr.	<b>Better +</b> < 1.0 air changes/hr.
Recommendations	Rigid Air Barrier with taped joints, seal between botton plate and floor, avoid or seal all penetrations.	Internal Air-tightness wrap	Internal Air-tightness and moisture management wrap





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<b>6 VENTILATION</b>	Continuous whole home ventilation system with fresh air supply (NOT to be sourced from the roof space).	<b>Base +</b> Balanced Whole House Energy Recovery Ventilation System designed and commissioned by a professional / Superhome Participant.	
Recommendations		Continuous extraction from bathrooms by whole home ventilation system with fan boost connected to humidity sensor.	<b>Better +</b> Recirculating rangehood with carbon and grease filters.
<b>7 ENERGY</b>	Space Heating Demand of <75kWh/m <sup>2</sup> /yr Energy Efficient Space Heating sufficient to heat the whole house to maintain 18-24 degrees 80% of the time. EV charging provision appropriately sized.	<b>Base +</b> Space Heating Demand of <45kWh/m <sup>2</sup> /yr Solar PV Panels or other renewable energy source.	<b>Base +</b> Space Heating Demand of <15kWh/m <sup>2</sup> /yr Battery storage. Or other energy storage.
Recommendations	Energy Efficient hydronic or heat pump Space Heating and Heat pump hot water System with eco responsible refrigerant (410). No use of fossil fuels.		
<b>8 DESIGN</b>	Design that is spatial efficient, energy efficient, functional and low carbon. Orientation optimised to minimise overheating potential with appropriately sized glazing and external shading to suit elevation orientation.	<b>Base +</b> Verified by Modelling.	<b>Better +</b> Verified by Modelling.
Recommendations	Refer to Design Guides. Appropriately sized eaves (greater than 700mm) to North and West glazing or other shading (e.g deciduous trees, pergola's, shutters, or other external shading etc to be appropriate to design and orientation.		
<b>9 WATER</b>	Rainwater Collection for irrigation. WELS rated plumbing fittings - Showers 3 Star WELS, Toilets 4 Star WELS, Kitchen Taps 4 Star WELS, Bathroom Taps 6 Star WELS	<b>Base +</b> Rainwater Collection for irrigation	<b>Better +</b> Rainwater Collection for irrigation and flushing toilets and domestic water supply.
Recommendations	Above ground or in-ground tank depending on space or under floors or decks. Washing Machine to be 4 Star WELS and Dishwasher 5 Star WELS	<b>Base +</b> Rainwater for flushing toilets is recommended.	<b>Better +</b> Grey Water Recycling.
<b>10 WASTE MINIMISATION</b>	Recycling of all construction waste where possible.	<b>Base +</b> On-site Waste minimisation and management plan fully implemented during construction.	
Recommendations	Design out waste at the design stage, specify natural and/or recyclable low carbon materials.	<b>Base +</b> REBRI Waste Management Plan or your own plan.	