

## THERMAL PERFORMANCE REQUIREMENTS

**13 Pacific Road, Palm Beach NSW 2108**

**New Dwelling**

**See NatHERs Certificate for full information**

**Builder to confirm insulation and glazing requirements in NatHERs Certificate prior to construction**

**All insulation and glazing must meet BCA and Australian Standard requirements**

	Construction	Added Insulation
<b>External walls</b>	280mm double cavity brick 270mm double cavity brick 250mm Double brick 200mm AFS Logic wall Above all dark colour 110mm lightweight cladding – medium colour	270mm double cavity brick with R1.8 rigid insulation to: <ul style="list-style-type: none"> <li>- Southern wall of lower ground floor (bath, bed 4 and rumpus)</li> <li>- Southern wall of ground floor (WC, pantry and kitchen)</li> <li>- Southern and eastern wall of entry of first floor.</li> </ul> 110mm lightweight cladding to ensuite of first floor - R2.5 bulk insulation + reflective foil.  Remaining external walls, no insulation required.
<b>Internal walls</b>	<b>Lower Ground Floor</b> – 110mm single brick and timber stud with 90mm timber framed <b>Ground Floor</b> – 110mm single brick; double cavity brick; 90mm timber stud wall and AFS logic wall <b>First Floor</b> - 90mm timber framed	No insulation added to internal walls
<b>External Floors on ground or suspended</b>	<b>Lower Ground Floor &amp; Ground Floor</b> - Concrete slab on ground and suspended concrete slab enclosed <b>First Floor</b> – Section of ensuite, suspended concrete slab over courtyard below	No insulation added to external floors
<b>Ceilings between Floors</b>	Suspended concrete slab with plasterboard lining beneath	Lower Ground & Ground Floors – R2.0 bulk insulation to ceilings between levels
<b>Ceiling to roof cavity</b>	Concrete roof structure with plasterboard lining beneath	R2.0 bulk insulation to ceiling
<b>Roof</b>	Concrete roof	No insulation added
<b>Fixed floor coverings</b>	Tiles to wet areas, kitchen and pantry Timber flooring to remaining living, hallways, bedrooms and WIR	
<b>Glazing</b> - All glazing to be in accordance with BCA standards	Aluminum frames (draft sealed) <b>Note:</b> Assessment with default windows – Allowable window values: Only a +/- 5% SHGC tolerance is allowed with this rating.  NB: This tolerance only applies to SHGC, the U-value can always be lower but not higher than the values stated	Single glazed clear, U-value 6.70 SHGC 0.57 & 0.70 to all glazed doors and windows.
<b>Ceiling Penetration</b>		This assessment has been rated with LED downlights and exhaust fans  Assessment 4 dated 7/9/2020