

EASY GUIDE TO INSULATION

including **ALBANY**
PEMBERTON
MANJIMUP
WALPOLE

Refer to the Building Code of Australia for insulation requirements for reflective foil laminates and combination foil and bulk insulation blankets.

In all ceilings and bulkheads
INSTALL **R3.5** INSULATION

ZONE 6

Are the walls made of a **TIMBER FRAME** with timber, steel or fibre cement sheet cladding
INSTALL **R2.0** INSULATION

Are the walls made of a **STEEL FRAME** with timber, steel or fibre cement sheet cladding
INSTALL **R2.0** INSULATION

Are the walls made of **RAMMED EARTH** or mud bricks
INSTALL **R0.5** INSULATION

Are the walls made of **REVERSE BRICK VENEER** (bricks on the inside only)
INSTALL **R2.0** INSULATION

Are the walls made of **BRICK VENEER** (bricks on the outside only)
INSTALL **R2.0** INSULATION

Are the walls made of **DOUBLE BRICK** with a cavity
INSTALL **R0.5** INSULATION

| How thick (in mm) does the insulation have to be? | | | | | | |
|---|------|------|------|------|------|------|
| COMMON BULK INSULATION MATERIALS | R1.0 | R1.5 | R2.0 | R2.5 | R3.0 | R3.5 |
| Cellulose fibre loose fill | 40 | 60 | 80 | 100 | 120 | 140 |
| Glass fibre batt | 44 | 66 | 88 | 110 | 132 | 154 |
| Polyester or wool blanket | 45 | 68 | 90 | 113 | 135 | 158 |
| Polystyrene expanded | 39 | 59 | 78 | 98 | 117 | 137 |
| Polystyrene extruded | 28 | 42 | 56 | 70 | 84 | 98 |
| Polyurethane rigid foamed aged | 28 | 42 | 56 | 70 | 84 | 98 |
| Rockwool batt | 33 | 50 | 66 | 83 | 99 | 116 |
| Wool (80%) polyester (20%) batt | 45 | 68 | 90 | 113 | 135 | 158 |

* These values are indicative only. R-value is reduced if the material is compressed to a lesser thickness that affects the density. Refer to manufacturers catalogue for values at various densities.

CONCRETE SLAB ON GROUND

For other methods of floor construction refer to the Building Code of Australia (BCA)

Insulation in all new homes and renovations must adhere to the Building Code of Australia (BCA)

This may also be used as a guide for ceiling insulation in existing homes. However, retrofitting insulation in existing walls may be difficult.