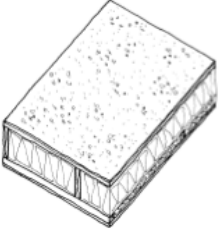


Table A5. Parametric variations of materials used for each layer of the Roof Typology 2.

Layers of Roof Typology 2 	Number of variations
Internal layer: Lightweight finish	2
Suspended ceiling	
25 mm plasterboard with paint finish on timber battens	
Insulating layer: Loadbearing framing & insulation (U-value: 0.12/0.09/0.07 W/m²K)	6
Galvanised steel cassette with polyethylene vapour barrier and 275/350/450 mm mineral wool insulation	
I-post timber framing cassette with plywood panel, polyethylene vapour barrier and 275/350/450 mm mineral wool insulation	
External layer: Lightweight finish	5
2 layer bitumen roofing membrane	
1 layer EPDM roofing membrane	
Green roof with EPDM membrane and mineral wool insulation	
1.0 mm zinc sheet on separation layer	
Clay roof tiles with battens, cross-battens and sarking felt	
Total number of parametric variations (2 x 6 x 5)	60