

## Floor assemblies

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<b>Elevated timber floor</b>		Timber floor consisting of standard 19mm Tongue and Groove hardwood floorboards fixed directly over 100mm floor joists. Reflective foil laminate fixed to under side of joist. Bulk insulation placed on perforated foil.				
Materials	Description	Unit	Quantity	EEC (MJ/unit)	EE (MJ/m <sup>2</sup> )	
water-based paint	internal finish/seal	m <sup>2</sup>	1.0	8.7	8.7	
timber hardwood	19mm hardwood floorboards	m <sup>3</sup>	0.019	36130	686	
timber hardwood, floor joists 100x50 450C	hardwood floor joists 100x50	m <sup>3</sup>	0.015	36130	542	
fibreglass insulation	insulation, 90mm thick	m <sup>3</sup>	0.083	1438	120	
timber hardwood, floor bearers 100x75 1000C	hardwood bearers 100x75	m <sup>3</sup>	0.0075	36130	271	
aluminium reflective foil	reflective foil	m <sup>2</sup>	1.0	25	25	
aluminium reflective foil, perforated	perforated aluminium foil	m <sup>2</sup>	0.9	25	22	
concrete 20MPa, pier 90x90	concrete stumps 1m	m <sup>3</sup>	0.0081	2404	19	
concrete 20MPa, pad 300x300x600	concrete pad footings 300x300x600	m <sup>3</sup>	0.054	2404	130	
steel, reinforcement	steel reinforcement bars	t	0.0062	38820	241	

**2065**

<b>110mm concrete slab-on-ground, raft</b>		Steel reinforced raft concrete slab (150 avg. thickness) on sand fill with waterproof membrane. Polished and sealed.				
Materials	Description	Unit	Quantity	EEC (MJ/unit)	EE (MJ/m <sup>2</sup> )	
water-based paint	internal finish/seal	m <sup>2</sup>	1.000	8.7	8.7	
concrete 25MPa	concrete @ 150mm thick	m <sup>3</sup>	0.15	2581	387	
steel, reinforcement	steel mesh @ F82 central	t	0.015	38820	582	
membrane polyethylene 0.2mm	waterproof polyethylene film 0.2mm	m <sup>2</sup>	1.0	25	25	
sand	fill	m <sup>3</sup>	0.1	506	51	

**1053**

<b>110mm concrete slab-on-ground, waffle pod</b>		Steel reinforced waffle pod concrete slab (150 avg. thickness) on sand fill with waterproof membrane. Polished and sealed.				
Materials	Description	Unit	Quantity	EEC (MJ/unit)	EE (MJ/m <sup>2</sup> )	
water-based paint	internal finish/seal	m <sup>2</sup>	1.0	8.7	8.7	
concrete 25MPa	concrete @ 150mm thick	m <sup>3</sup>	0.15	2581	387	
steel, reinforcement	steel mesh @ F82 central	t	0.015	38820	582	
polystyrene	waffle pods	m <sup>3</sup>	0.23	3485	784	
membrane polyethylene 0.2mm	waterproof polyethylene film 0.2mm	m <sup>2</sup>	1.0	25	25	
sand	fill	m <sup>3</sup>	0.1	506	51	

**1838**