

Floor assemblies

Cite as: Crawford, R.H. (2022). Embodied water of common construction assemblies (Version 1). University of Melbourne. Melbourne. DOI: doi.org/10.26188/20703964

Elevated timber floor		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	EWC (L/unit)	EW (L/m ²)
water-based paint	internal finish/seal	m ²	1.0	16.1	16.1
timber hardwood	19mm hardwood floorboards	m ³	0.019	58411	1110
timber hardwood, floor joists 100x50 450C	hardwood floor joists 100x50	m ³	0.015	25332	380
fibreglass insulation	insulation, 90mm thick	m ³	0.083	1018	85
timber hardwood, floor bearers 100x75 1000C	hardwood bearers 100x75	m ³	0.0075	25332	190
aluminium reflective foil	reflective foil	m ²	1.0	33.8	34
aluminium reflective foil, perforated	perforated aluminium foil	m ²	0.9	33.8	30
concrete 20MPa, pier 90x90	concrete stumps 1m	m ³	0.0081	4154	34
concrete 20MPa, pad 300x300x600	concrete pad footings 300x300x600	m ³	0.054	4154	224
steel, reinforcement	steel reinforcement bars	t	0.0062	37100	230

2333

110mm concrete slab-on-ground, raft		Steel reinforced raft concrete slab (150 avg. thickness) on sand fill with waterproof membrane. Polished and sealed.			
Materials	Description	Unit	Quantity	EWC (L/unit)	EW (L/m ²)
water-based paint	internal finish/seal	m ²	1.000	16.1	16.1
concrete 25MPa	concrete @ 150mm thick	m ³	0.15	4196	629
steel, reinforcement	steel mesh @ F82 central	t	0.015	37100	557
membrane polyethylene 0.2mm	waterproof polyethylene film 0.2mm	m ²	1.0	32.4	32
sand	fill	m ³	0.1	2700	270

1504

110mm concrete slab-on-ground, waffle pod		Steel reinforced waffle pod concrete slab (150 avg. thickness) on sand fill with waterproof membrane. Polished and sealed.			
Materials	Description	Unit	Quantity	EWC (L/unit)	EW (L/m ²)
water-based paint	internal finish/seal	m ²	1.0	16.1	16.1
concrete 25MPa	concrete @ 150mm thick	m ³	0.15	4196	629
steel, reinforcement	steel mesh @ F82 central	t	0.015	37100	557
polystyrene	waffle pods	m ³	0.23	18923	4258
membrane polyethylene 0.2mm	waterproof polyethylene film 0.2mm	m ²	1.0	32.4	32
sand	fill	m ³	0.1	2700	270

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