

Substrate Build-Up Information



Wall Build-up – Dry Areas

- Timber batten 400mm or 600 mm centres, noggins to support all board joints.
- Single or double layer of 12.5mm plaster board.
- Scrim all joints.
- 2-3mm plaster skim – rough finish, not trowelled smooth / polished.
- Allow to dry fully.
- 3mm Forcrete system (belt or braces or fast spec depending on application).

Wall Build-up – Wet areas

- Timber batten 400mm or 600 mm centres, noggins to support all board joints.
- 18mm Marine Ply, OSB or 12mm Cement board.
- Note – Tanking can be installed here if required. Not required with Forcrete.
- 12mm cement board, glued & screwed, cross laid staggering all joints.
- 3mm Forcrete Belt & Braces system with relevant base coat depending on application.

Wall Build-up – Curved details / pre-formed curved spa seating / Curved swimming pool ceilings

- Suitably supported substrate system. Timber joist or metal track system.
- Tile backer board suitable for forming curves. Wedi Board / Jacko board or similar.
- Ensure board is fitted to ensure minimal movement. Multiple layers may be required.
- 6mm skim coat of K-Rend HP12 + 160gsm render mesh added in the middle.
- Allow to fully dry.
- 3mm Forcrete Belt & Braces system with relevant base coat depending on application.

Timber Joist Floor Build-up

- Timber Joist.
- 18mm or 22mm tongue and groove chipboard.
- Note – Tanking can be installed here if required. Not required with Forcrete.
- 12mm cement board, glued & screwed, cross laid staggering all joints.
- 3mm Forcrete Belt & Braces system.
- Note – Double mesh (Ultra belt & braces) can be specified for extra crack resistance.

Electric Underfloor heating build-up

- Timber Joist or Screed.
- 18mm or 22mm tongue & groove chip board (if applying onto joist).
- Prime with Epoxy Primer and scatter with large quartz (0.7-1.2 grain size).
- Allow to dry and Hoover off the loose sand.
- Fit the sticky Electric matt, such as 'Warm Up' matt or similar.
- Apply a layer of 160gsm render mesh over the top of the sticky matt and stick down with glue gun.
- Apply a **minimum** of 10mm, single component, cementitious, fibre re-enforced levelling compound such as Mapei Ultra Plan renovation screed.
- Allow to dry naturally. Commission the underfloor heating. Running it up to temp and then lowering it back down over a period of two weeks.
- Ensure moisture content reaches the correct levels.
- Apply Forcrete mesh floor system at 3mm total thickness.
- Note – Double mesh (Ultra belt & braces) can be specified for extra crack resistance.

Wet underfloor heating – Screed

- Insulation + DPM.
- Underfloor heating system.
- 50-60mm Liquid screed or 60-70mm sand & cement screed.
- Note – All screed types are compatible. Minimum strength – C30, SR1 surface regularity.
- Allow to dry naturally and commission the underfloor heating. Running it up to temp and then lowering it back down over a period of two weeks.
- Ensure moisture content reaches the correct levels.
- Apply Forcrete mesh floor system at 3mm total thickness.
- Note – Double mesh (Ultra belt & braces) can be specified for extra crack resistance.

Wet underfloor heating – Surface Mounted – Timber joist

Option 1 – Nu Heat – ClippaPlate System

- Timber joist.
- Install ClippaPlate System as per manufacturers guidelines.
- 18mm or 22mm tongue and groove chipboard.
- 12mm cement board, glued & screwed, cross laid staggering all joints.
- 3mm Forcrete Belt & Braces system.
- Note – Double mesh (Ultra belt & braces) can be specified for extra crack resistance.

Option 2 - Nu Heat – NuDeck System

- Timber joist.
- Install NuDeck 22mm chipboard as per Nu Heat system instructions.
- Install 6mm cover board as per Nu Heat system instructions.
- 12mm cement board, glued & screwed, cross laid staggering all joints.
- 3mm Forcrete Belt & Braces system.
- Note – Double mesh (Ultra belt & braces) can be specified for extra crack resistance.