Stop ends created in damp-proof course at openings

Waterproof membrane turns up behind door sill

Top of hob to be waterproofed

Safety factor over-flow

Externally fixed post brackets are bolted through structural timber

Cross cavity flashing creates an over-flashing over the waterproof membrane termination height

Sheet substrate

Storm water drainage outlet

Fall in floor tiles to storm-water drainage 1:80

Floor joist

Soffit lining

Drip edge
HOW BOND BREAKERS WORK

Note: Lack of an effective bond breaker is the most common single source of a waterproofing system breakdown.
TYPICAL BOND BREAKER DETAIL FOR CLASS I MEMBRANES AT A WALL / FLOOR JUNCTION

- Membrane shown dotted
- Wall substrate or lining
- Continuos tape to hold backing rod in place to stop liquid membrane from flowing around the backing rod.
- Floor substrate or bedding
- Backing rod Ø 6 mm min.
TIMBER FILLET DETAIL FOR CLASS I SHEET MEMBRANES

* Do not use this detail for resin based or liquid applied systems.

CFC or structural ply deck sheet

Cross-cavity and overflashing

Sheet membranes only

Timber fillet glued and screwed to deck substrate

Flexible sealant

Timber or metal floor joist

The triangular timber fillet also aids in the transition of the membrane from horizontal to vertical.
TYPICAL FILLET DETAIL FOR CLASS III PVC MEMBRANES

- Liquid PVC to be applied to all welded seams
- PVC cover strip heat welded to PVC laminated profile and main PVC field membrane
- Main field PVC membrane
- PVC laminated metal profile shown anchored over main PVC field membrane
- Nylon anchor
PERIMETER HOB DETAIL

- Poured in-situ concrete perimeter hobs
- Membrane system liquid or sheet
- Drip groove
- Fillet
HOBS THAT ARE Poured AS A SECONDARY UNIT

Poured in-situ concrete hob across door or window openings

Membrane support angle and water stop anchored to the top of the hob

Waterproofing membrane

Fillet (bond breaker)

Stop ends created in the membrane and cross cavity flashing

8mm diameter stainless steel pin drilled into slab at 220mm centres and set in epoxy resin

Epoxy resin shown dark grey

The finished level of the concrete slab is the same inside and out
HOB DETAIL WITH METAL CAPPING

Waterproof membrane shown in dark grey

Skirt tiles

Flashing over capping stop end

Stop end in stainless steel capping end

Stainless Steel capping clipped over retaining clips

Safety factor overflow lined with membrane

Capping retaining clips anchored to vertical hob edges

To storm water drainage outlet

Fillet (bond breaker)

1:80 minimum falls in concrete slab to storm water drainage outlet

Slip sheet on top of cross cavity flashing

Cross cavity flashing

Slip sheet between top of brick course and slab bottom
OVERFLASHING
MEMBRANE TERMINATION AROUND METAL DOWN PIPE

- Down pipe support bracket fixed above damp course level
- 2nd or membrane cap layer
- 1st membrane layer
- Membrane turns down and bonds into drainage flange

Note: Metal down pipes may need to be replaced after a period of time. To save disturbing the integrity of the waterproofing membrane the above example is the most practical solution.
BALUSTRADE POSTS FIXED ONTO CONCRETE SLAB

- Cover plate to slide down and sealed after completion of the tiling process
- UV resistant flexible sealant
- Externally fixed membrane cover plates
- Optional soluble salt gutter
- Membrane termination 30mm above finished tile level
Toughened glass panels

Toughened glass panels grouted into rebate using high strength non shrink grout

The top of the hob and the internal surface of the rebate are coated with epoxy resin

Waterproof membrane

Cross cavity flashing
Membrane support angle and water stop anchored to the top of the hob

Poured in-situ concrete hob across door or window openings

Stop ends created in the membrane and cross cavity flashing

Waterproofing membrane

8mm diameter stainless steel pin drilled into slab at 220mm centres and set in epoxy resin

Epoxy resin shown dark grey
CROSS CAVITY FLASHINGS AND TIMBER DECKS

Timber decking boards

UV resistant waterproofing membrane system

Over flashing

Cross cavity flashing

Weep hole

Joists

Over flashing downward bend line shown dotted

Joist restraint brackets fixed to the brickwork and sealed over

10mm x 100mm x 100mm Rubber protection pads bonded to the timber joists at 450mm centers. The protection pads are not attached to the membrane