Technical Drawings from AIW to assist with understanding

AS4654.2 Waterproofing membranes for external above-ground use.
Design and installation.
Vertical member shall be sealed so as not to allow any ingress of water. No voids are to be found in post support other than holes for fixing points through baseplate.
Detail of horizontal membrane penetration

- Membrane
- Foam backing rod
- Compatible flexible sealant
- Flange compatible with membrane fixed to substrate
- Hydro swelling material sleeve
- Service pipe

NOTE:
Prime service pipe to allow for proper adhesion between sealant and pipe interface
Detail of one way movement joint

- Metal capping
- Flexible membrane expansion loop
- Metal fixing brackets to allow movement
- 5x5 mm min. fillet or bond breaker to be placed in corner via cover or similar
- Backing rod
- Sealant
Detail of one way construction joint

- Backing rod compatible with membrane
- Sealant
- Backing rod
- Membrane fully bonded
- Membrane to be unbonded for first 100 mm
Drainage detail for exposed membrane

- Membrane
- Clamping ring
- Flat or dome grate as required
Vertical upward termination – overflashing profile

- Weatherproof wall
- Sealant
- Pressure seal flashing (profile may vary)
- Attach using mechanical fixings at 150mm centres max.

- 100 mm min.
- 15 mm min.
- 10 mm min. gap between the bottom of the flashing and finished level
- Finished level
- Membrane

5x5 mm min. fillet or backing to be placed in corner via cove or similar
Vertical upward termination – overflashing terminated in reglet and sealed

- Weatherproof wall
- Sealant
- Over-flashing
- 100 mm min.
- 75 min. lap
- 10 mm min. gap between the bottom of the flashing and finished level
- Finished level
- Membrane

5x5 mm min. fillet or backing to be placed in corner via cove or similar
Vertical downward termination – balcony edge detail
Vertical downward termination – pressure seal

- Membrane
- Sealant
- Sealed fixing
- Over-flashing

Downturn to extend a min. of 100 mm from the junction
Edge protection of sheet membrane over parapet

- Top fixing not allowed
- Water seal under head of fixings
- 5x5 mm min. fillet or backing to be placed in corner via cove or similar
- Upstand
- Weatherproof external wall

Capping/waterproof membrane

Finished level
Membrane termination at a cavity parapet

- **Coping**
- **Damp-proof course if parapet is more than 300 mm above roof cladding**
- **Flashing**
- **Finished level**
- **Roof structure**
  - 10 mm min gap between the bottom of the flashing and the finished level
- **Weep hole at maximum 1.2 m centres**
- **5x5 mm min. fillet or backing to be placed in corner via cove or similar**
Gutter termination detail

Metal angle fixed to substrate with 35 mm min. vertical leg

Membrane downward termination on the downward face of angle

Flooring / substrate

Appropriate gap to allow gutter replacement without damaging the integrity of the membrane
Membrane termination at external opening doors

- Dashed line indicates waterstop angle returning to external face
- Door sill
- Location for fixing sill / subsill where horizontal restraint is required
- Weep hole in track subsill
- Subsill flashing
- 5x5 mm min. fillet or backing to be placed in corner via cove or similar
- Finished floor level

100 mm min.
Membrane termination at wall openings

- Flashing
- Door sill
- Dashed line indicates waterstop angle returning to external face
- Membrane
- Flexible sealant
- Waterstop
- Finished internal floor level

- Grate to the width of or beyond the opening
- Non-ferrous grate frame support
- Grate to be supported on grate frame

- Gutter formed in substrate
- Drained to stormwater system
Vertical penetration detail using collar

- Compatible sealant
- Clamp
- Collar compatible with membrane fixed to substrate
- Flashing
- Membrane to be sealed to the collar

Finished floor level

75 mm min.

10 mm min.

75 mm min.

Membrane