



**GRADE BEAM PILE CAP  
OPTION 2  
PREPRUFE WATERPROOFING SYSTEM**

DRAWING: PRE-044

SCALE: Not to scale

EFFECTIVE DATE: 01-03-2019



# Grade Beam Pile Cap— Option 2

Prior to Membrane Installation, Review the Preprufe<sup>®</sup> Data Sheet

## Surface Prep

All surfaces must be sound and solid to eliminate movement during the concrete pour. Substrate must be regular and smooth with no gaps or voids greater than 15 mm. The surface should also be free from loose aggregate and sharp protrusions as outlined in the Preprufe<sup>®</sup> Data Sheet section on Surface Preparation.

## Detailing

To allow for proper tie-in between Preprufe Field Membrane and pile cap, a 152 mm ledge/shelf along the pile cap's perimeter is required.

## For Mud slabs

1. Clean loose dust or dirt from the pile cap and mud slab surface using a clean, dry cloth or brush.
2. Apply a continuous 90-mil (2.2 mm) coating of Bituthene Liquid Membrane over the top of the pile cap.
3. Place a 25 mm bead of Liquid Membrane around all penetrations at the point of penetration through the pile cap.
4. Prime along the edge of the mud slab a minimum of 150 mm from the edge of pile cap with a Bituthene Primer and allow to dry.
5. Align a 225 mm strip of Bituthene Membrane centred over the edge of the pile cap. Remove release liner and roll firmly onto the Liquid Membrane and primed mud slab.
6. Install Preprufe Membrane over the prepared substrate and terminate it 50 mm onto the pile cap.
7. Apply Preprufe Tape centred over the Preprufe Membrane termination. Remove the release liner and roll firmly.
8. Seal Bituthene Membrane and Preprufe Tape edge with a termination bead of Liquid Membrane.

## For Compacted Earth

1. Apply a continuous 90-mil (2.2 mm) coating of Bituthene Liquid Membrane over the top of the pile cap.
2. Place a 1 in (25 mm) bead of Liquid Membrane around all penetrations at the point of penetration through the pile cap.
3. Remove compacted earth away from sides of pile cap and remove formwork. Clean loose dust or dirt from the pile cap surface using a clean, dry cloth or brush.
4. Prime the sides of the pile cap a minimum of 150 mm from the top of pile cap with a Bituthene Primer and allow to dry.

5. Align a 225 mm strip of Bituthene Membrane centred over the outside edge (outside corner) of the pile cap. Remove release liner and roll firmly onto the Liquid Membrane and primed sides of pile cap.
6. Align a 300 mm strip of Bituthene Membrane centred over the outside edge (outside corner) of the pile cap.
7. Remove half of release liner by removing the RIPCORDER<sup>®</sup>-Split Release on Demand or by scoring release liner along the centre of the strip.
8. Roll firmly onto the sides of pile cap with the 225 mm strip of Bituthene Membrane and the remaining primed pile cap.
9. Leave the other half of the 300 mm strip with the release liner still intact in order to receive the Preprufe Membrane.
10. Replace earth/fill and compact per standard back-filling instructions being careful not to damage the Bituthene strip including the non-bonded portion.
11. Invert the Bituthene strip, and remove the remaining release liner to expose the adhesive portion of the Bituthene.
12. Install Preprufe Membrane over the prepared substrate and terminate it 50 mm onto the pile cap.
13. Roll firmly onto the inverted Bituthene strip.
14. Apply Preprufe Tape centred over the Preprufe Membrane termination. Remove the release liner and roll firmly.
15. Seal Bituthene Membrane and Preprufe Tape edge with a termination bead of Liquid Membrane.

### **Special Notes**

Preprufe membranes should not be used in areas where they will be permanently exposed to sunlight, weather or traffic. Protect membrane from sunlight as quickly as possible after installation.