

2.18.10 – BELOW GRADE WATERPROOFING, DAMPPROOFING & PARGING

There are many methods available to protect the “below grade” and the “just above grade” areas of the exterior of your building.

Dampproofing is used on concrete or masonry surfaces to repel water in above grade walls. The 2.75 inch (70 mm) and thicker foam panels of the Logix insulated concrete forms acts as dampproofing, therefore, no additional dampproofing treatment is required.

NOTE: Although dampproofing above grade walls is not typically required, check with local building codes for dampproofing requirements.

2.18.10.1 – BELOW GRADE WATERPROOFING



Logix recommends a rubberized “peel and stick” waterproofing membrane. The membrane is applied vertically to the wall from grade level down to and overlapping the top of the footing. It is recommended to use protection board (1/2 inch EPS or EXP foam sheets or similar) to prevent damage to the waterproofing membrane during backfilling.

Free flow drainage material with a maximum fluid density of 30 pcf (480 kg/m³) is recommended, i.e., sand or sand-gravel mix.

NOTE: Membrane should be installed within one week prior to backfill being placed. Sunlight and high temperatures may cause the membrane to begin to “sag” which may cause wrinkles in the material which may result in tears or punctures during the placement of the backfill material. Should you choose to use one of the many other types of waterproofing available be sure to follow the manufacturer’s recommended installation procedures.

STEP 1: Prep the wall and footing area to be covered by removing dirt and debris.

STEP 2: Snap chalk lines for the “grade” line.

STEP 3: Measure the height from grade line to footing. Add enough length to cover the top of the footing and cut pieces of membrane to length.

2.18.10.1 – BELOW GRADE WATERPROOFING CONTINUED

Also cut smaller 4" - 6" (102mm - 152mm) pieces to be applied as "corner caps". This will provide double ply protection in the corners.



STEP 4: Apply the "corner cap" pieces on each corner first.

STEP 5: Starting at a corner, line up the membrane so it is hanging vertically (using our vertical cut lines as a guide to keep membrane plumb). Pull back the first 8" - 10" (203mm - 254mm) of the release paper and press the membrane to the wall. Continue pulling back the release paper and pressing membrane to the wall.

STEP 6: Continue applying cut pieces of membrane around the wall, maintaining 2 inch (51 mm) overlap by using the printed marks on the membrane as a guide.

NOTE: Extreme temperatures, both cold and hot, may cause the installer to consider other types of waterproofing. Be sure to follow the manufacturer's installation process.

2.18.10.2 – ABOVE GRADE PARGING

The area that is above grade line and below the exterior siding material must be parged to protect the EPS from damage.

Parging is a coating material that is applied to give a finished appearance to the small area of wall that is above grade level but below where the siding materials will begin. Logix Prepcoat is the preferred option for this area.

STEP 1: Prep the wall area to be covered by removing any dirt or debris. The wall may need to be “scuffed” to reveal fresh EPS beads.

STEP 2: Mix Prepcoat dry material with water to a pasty consistency.

STEP 3: Using a trowel apply a thin, 1/16” - 1/8” (2mm - 3mm) “skim coat” of Prepcoat.

STEP 4: Pre-cut pieces of Logix fiber mesh 1” - 2” (25mm - 51mm) wider than the area to be parged. This will allow for an over-lap over the waterproofing membrane to create a “drip ledge”.

STEP 5: Embed the mesh in the skim coat firmly.

STEP 6: Once the area is dry to the touch apply a second coat of Prepcoat. This coat can be painted or stained if desired.