

INSERTING PLATON BRICK PLUG THROUGH MEMBRANE STUD



FIG. 1

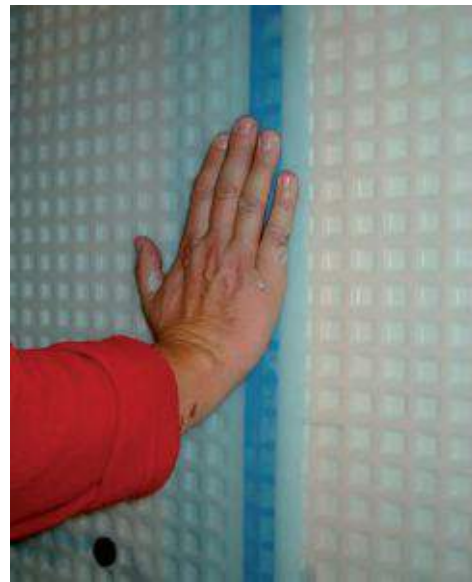
INSERTING PLATON BRICK PLUG THROUGH MEMBRANE STUD



FIG. 2

FLANGE TO STUD SEALING TAPE JOINT





P20 FLOOR MEMBRANE CUT AROUND PERIMETER WALLS

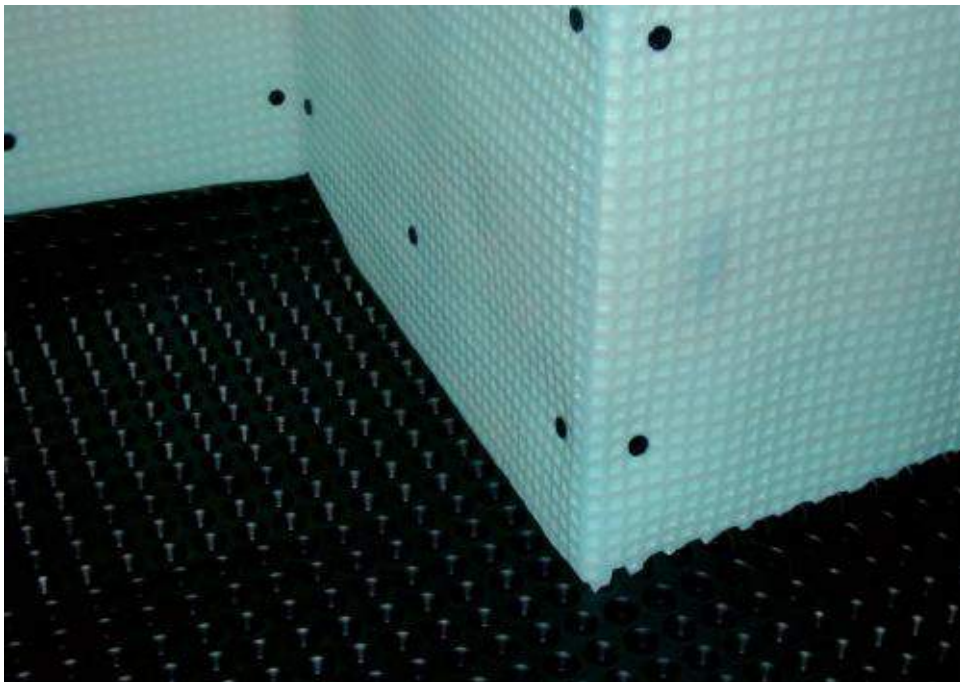


FIG. 7

POSITIONING OF SEALING ROPE BETWEEN TWO STUDS OF THE P20 MEMBRANE



FIG. 8

FORMING 90° ANGLE CREASE IN CORNER STRIP



FIG. 11

CORNER STRIP WITH CREASE OFFERED INTO ANGLE



FIG. 12

CORNER STRIP – ANGLE CUT



FIG. 13

CORNER STRIP PRESSED INTO POSITION

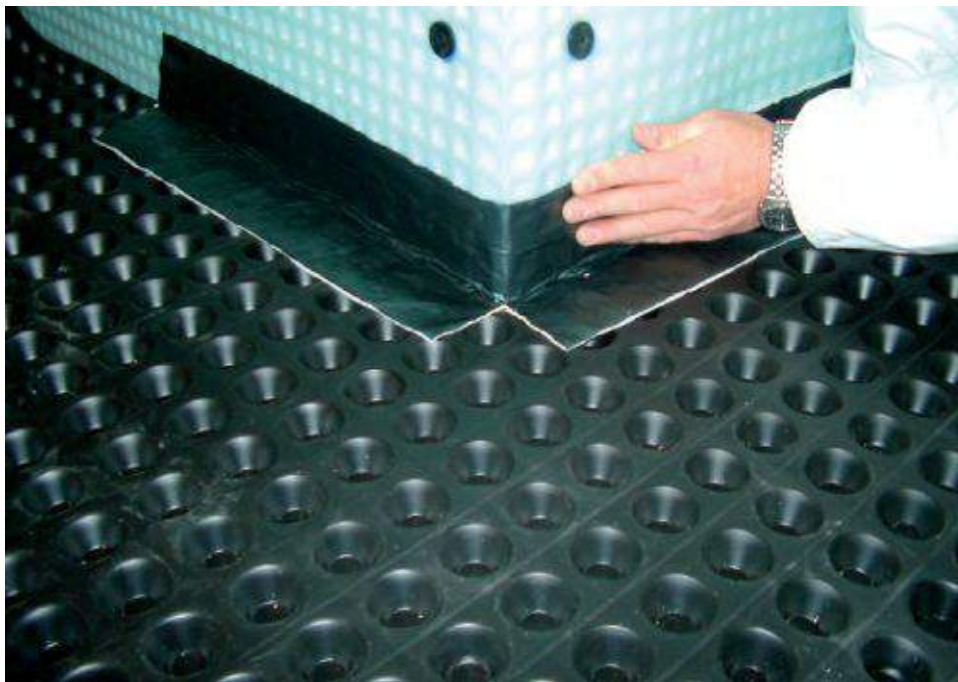


FIG. 14

ANGLE PIECE TO SEAL & COMPLETE CORNER JOINT



FIG. 15

COMPLETED CORNER STRIP WALL/FLOOR JUNCTION DETAIL

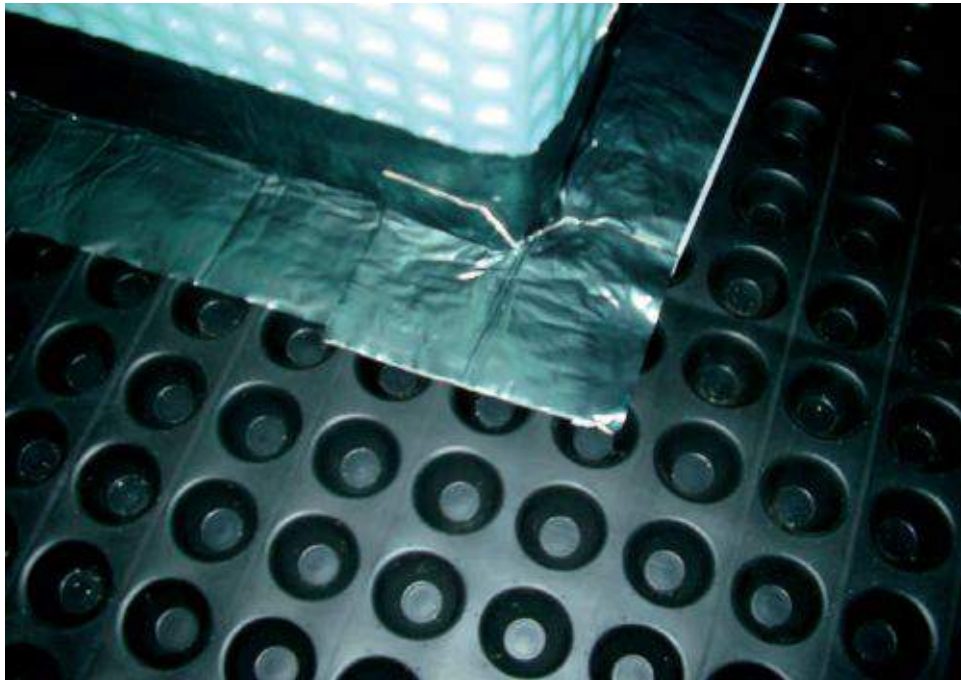


FIG. 16



TAPE SEAL TO SERVICE PIPE DUCTS PROTRUDING THROUGH WALL STRUCTURE AND MEMBRANE

FIG. 17

2.0 MEMBRANE INSTALLATION – (internal applications in below ground structures)

2.1 Internal Basement Structures

Set out below is a generic method of installation, which can be used to apply Platon Multi, P5, and P20 cavity drain membranes continuously between wall and floor. NB it is assumed by this stage, that the site and design considerations mentioned earlier in this document, have been assessed and the type of drainage facility chosen has been tested. The installation of Platon Plasterbase and Double Drain are covered under a separate heading further in this document.

2.2 Walls and Floors

2.2.1 Wall application using Multi or P5/P8

The installation of Platon Multi and P5 membranes can be fixed to walls either vertically or horizontally, but when choosing the method of application, consideration should be given to the height of walls in relation to the size of the roll of membrane. There are fewer joints in horizontal applications but it can be awkward and difficult to manoeuvre the weight of a full roll of membrane. Particularly in situations where the membrane has to be taken in and out of numerous recesses, also around convoluting junctions or where walls are not square. Vertical application may have more joints, but this method is more manageable and much easier to fix.

Platon Multi or P5/P8 cavity membrane is fixed to walls with the Platon Brick Plug. The brick plugs should be prepared for use before fixing by wrapping Platon Sealing Rope around the neck of plug just under the head. This will form a seal with the membrane when the plug is driven home into the substrate.

If the ceiling height is constant, measure and cut drops of the membrane to completely cover the wall areas to be treated. Place the membrane against the wall as level as possible by eye sight and in the top right or left hand corner (depending on which way around the room the membrane is being taken) drill a hole through the centre of the membrane stud using a 10mm drill bit. Insert the brick plug and hammer home the plug till it finishes flush with the membrane.

Using a spirit level, level out the membrane and then drill and fix another brick plug in the same manner approximately 1.5m along the top of the sheet and along the same line of stud as the first fixing. Order up the next length of membrane and position the flange over the studs of the first sheet and fix with two Brick Plugs at high level as previously described. Continue on in this manner, ensuring the membrane stays as level as possible until all the walls are covered. These independent membrane drops will relax after a while and hang flatter to the wall. The drops are now ready for the next step.

Thoroughly clean the flange and the studs where the seal is to be made, (the best cleaning material is a standard kitchen roll). Any dust or dirt will compromise the integrity of the sealed joint. If the membrane is covered in plaster or brick dust, wash off with clean fresh water only and allow to dry. DO NOT use soap or detergents, as these will leave traces on the membrane, which may affect the seal at a later date or make sealing more difficult.

The separate membrane drops should now be sealed together using Platon Sealing Tape. Apply the tape to the stud area below, which the flange will cover and press home onto the area between the studs. Flick over the flange section to cover the tape line, and check for uniformity of cover on tape line. Remove the tape backing paper, starting from the middle section of the wall drop, forming two backing paper tags, one going up and the other down. On the exposed section of tape apply hand pressure only to the flange to form an initial seal. Carry on to form the seal from the centre section of membrane working up to the top, then go back to the centre and repeat the operation going downwards. Sealing in this manner will prevent any buckling between the membrane or stress concentration at the joint. In very cold or humid conditions a hot air gun can be used to obtain a good sealed joint.

Now that the membrane is sealed to form one continuous sheet, Platon Brick Plugs can now be fixed through the membrane in position to accommodate the chosen dry lining system.

NOTE: Although a 10mm drill bit is the correct size to use, in very soft brickwork this can result in loose fixing. In these circumstances, it is useful to have on hand drill sizes down to 8mm and experiment with different sizes for the best results.

2.22 Floor application using Platon P20

Once the membrane has been fitted to the walls and before the dry lining system is installed, the floor membrane needs to be laid. As mentioned earlier in this document Platon P20 membrane is recommended on floors unless there is a head height restriction, in which case Platon Multi or P5 can be used, but the installation of Platon Multi and P5 on floors differs slightly from that of P20 and is explained below.

Begin at one side of the room and unroll the Platon P20 floor membrane against the wall membrane with the studs facing down onto the floor and cut the membrane to the desired length or width of the floor, just like laying a carpet. Repeat this exercise till all the lengths/widths required to cover the floor area have been cut allowing for a two-stud membrane overlap.

The individual sheets of membrane that have now been cut, are joined together with Platon Sealing Rope. The sealing rope is positioned between the two stud formations along the edge of the membrane to be overlapped and remove the release paper. Lift the next sheet of P20 membrane over the two interlocking studs and press the overlapping membrane down onto the sealing rope.

Foot pressure can be applied by sliding the sole of the foot over the membrane joint, to ensure that the membranes are fully bonded. The next stage of the operation is to link the P20 floor membrane to the wall membrane, which can be achieved, using Platon Wall/Floor Junction or Corner Strip. Using Platon Wall/Floor Junction, work out how many linear metres there are around the walls, the Platon Wall/Floor junction is produced in manageable 2LM lengths with a crease formed in the centre. Fold the material in half down the centre crease and then apply Platon Sealing Tape along the edges of the wall/floor junction material and leave the backing paper on.

If the one-sided adhesive corner strip is chosen to link the floor and wall membrane, the corner strip is folded in half along the length of the piece to be used and positioned with the crease into the angle as described for the wall/floor junction. Once correctly aligned, carefully pull off the backing paper and press firmly out with the palm of the hand onto the floor and wall membranes. Internal and external angles can be formed in the same manner as the Platon Wall/Floor Junction, but because it is a one-sided self-adhesive material and will stick to itself, no additional sealing tape is required.

2.23 Floor application using Platon Multi or P5/P8

As with the P20, begin at one side of the room and unroll the floor membrane against the wall membrane with the studs facing down onto the floor. Allow for the membrane flange overlap, cut the membrane to the desired length or width of the floor. Repeat this exercise until all the lengths/widths required to cover the floor area have been cut. Roll out the next length/sheet of membrane and position the flange over the studs of the first sheet laid and thoroughly clean the flange and the studs where the seal is to be made as previously described for wall application. Apply Platon Sealing Tape to the stud area below which the flange will cover and press home onto the area between the studs.

Flick over the flange section to cover the tape line, and check for uniformity of cover on tape line. Remove the tape backing paper, starting from the middle section of the membrane sheet, and peel off backing paper in opposite directions along the flange. On the exposed section of tape apply hand pressure only to the flange to form an initial seal. Carry on forming the seal working away from the centre of the membrane. Foot pressure can be applied by sliding the sole of the foot over the membrane joint, to ensure that the membranes are fully bonded. Sealing in this manner will prevent any buckling between the membrane or stress concentration at the joint. In very cold or humid conditions a hot air gun can be used to obtain a good sealed joint.

The next stage of the operation is to link the floor membrane to the wall membrane, which can be achieved, using Platon Wall/Floor Junction or Corner strip. Using Platon Wall/Floor Junction, work out how many linear metres there are around the walls, the Platon Wall/Floor Junction is produced in manageable 2Lm lengths with a crease formed in the centre. Fold the material in half down the centre crease and then apply Platon Sealing Tape along the edges of the wall/floor junction material and leave the backing paper on.

Ensure that the floor and wall membrane is clean and free from debris, dust and moisture and then position the Platon Wall/Floor Junction with the crease into the angle. Working from the centre, carefully peel back the backing paper in each direction and use hand pressure along the taped edges to form a seal. To form internal and external angles using Platon Wall/Floor Junction, the wall/floor Junction is cut to the centre line and bent either inwards or outwards depending on the angle. The edges are then sealed with tape to the membrane in the same manner as described above.

If the one-sided adhesive corner strip is chosen to link the floor and wall membrane, the corner strip is folded in half along the length of the piece to be used and positioned with the crease into the angle as described for the wall/floor junction. Once correctly aligned, carefully pull off the backing paper and press firmly out with the palm of the hand onto the floor and wall membranes. Internal and external angles can be formed in the same manner as the Platon Wall/Floor Junction but because it is a one-sided self-adhesive material and will stick to itself, no additional sealing tape is required.

2.24 Flat Soffit Application using Platon Multi or P5

As previously mentioned earlier in this document, Platon cavity drain membrane should not be fixed to the under side of a flat soffit unless a fall exists or a fall can be created in the soffit itself. The soffit should first be measured to establish the desired lengths or widths of membrane required to cover the area and then a further 200mm of membrane should be added to the measurements, to allow for the membrane to be lapped down all the peripheral walls.

Apply sealing rope to the Platon Brick Plugs as previously described. Then around the perimeter edges of the membrane, fold the membrane inward 200mm to form a positive crease and create a down lap. Over the membrane up to the soffit and position the down lap creases into the junction between the soffit and wall.

Drill and fix enough Platon Brick Plugs through the membrane and into the soffit to hold the membrane in place with the studs against the soffit. NB: Wherever the soffit membrane meets the wall, a 200mm down lap must be allowed and formed as above.

Offer the next length/sheet of membrane up to the soffit and position the flange over the studs of the first sheet, fix and secure the membrane as described above. Repeat this operation until all the membrane sheets are held in place. Thoroughly clean the flange and the studs where the seal is to be made as previously described for wall application. Apply Platon Sealing Tape to the stud area, which the flange will cover and press home onto the area between the studs. The membrane should now be sealed to form one continuous sheet, Platon Brick Plugs can now be fixed through the membrane, in positions to accommodate the chosen dry lining system.

NOTE: It is important to ensure that the membrane is taut against the soffit and doesn't sag, otherwise water ponding will occur and the membrane/seals could fail.

Internal and external corners are formed in exactly the same way as that which has been previously described in 'Floor application using Multi or P5 with membrane upstand' except in this case, they will be formed in reverse and be upside down.

2.25 Service Entry Seals

Where there are services such as pipes, ducting or steel stanchion that protrude through walls or floors, the membrane should be carefully cut and trimmed around the obstacle and sealed using a combination of Platon Sealing Rope or flexible mastic and corner strip material. Cloaks can also be formed using the wall/floor junction.

2.26 Doors and Windows

Door and window frames and timber surrounds should always be removed to enable Platon membrane to be extended around or into door and window reveals to maintain the continuity of the waterproofing system and to also provide a physical barrier between the frames and damp masonry. In situations where the Platon membrane would restrict or limit the profile of replaced frames, then Platon Wall/Floor Junction or Platon DPC Plain can be used to line and protect the reveals instead.