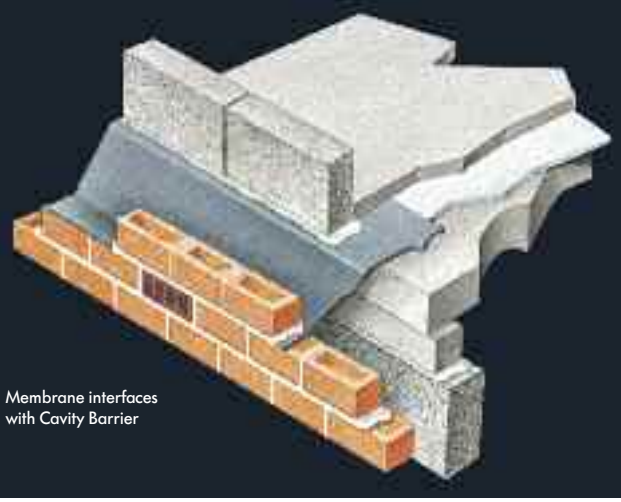
Radon Cavity Barriers

- Gas guarding through the wall
- Integrates with oversite membrane
- Acts as DPC
- Outward stepping discharges water



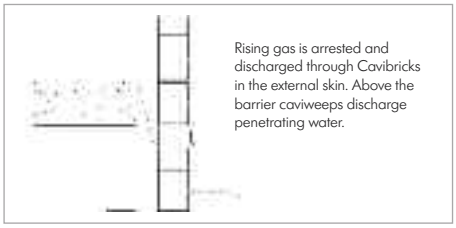
Membrane interfaces with Cavity Barrier

USE

To stop Radon rising up via the cavity. To provide protection that commences from the outside face of the cavity wall and continues through the wall and integrates with the oversite membrane.

SOLUTION

Radon cavity barriers are built into all exterior walls around the building at ground level. Their function is to arrest Radon gas rising in the wall cavity and prevent it permeating the structure. Gas is instead directed out of the cavity below



Rising gas is arrested and discharged through Cavibricks in the external skin. Above the barrier caviweeps discharge penetrating water.

barrier level via appropriately spaced cavibricks. The barrier is outward-stepping and shaped so any water penetrating above and collecting on it is discharged via Caviweeps incorporated within perp joints located at barrier surface level. (Subsequent pages provide detail of gas extraction via Cavibricks and water evacuation via Caviweeps).

A continuous and appropriately shaped Radon barrier around a building can provide unpunctuated arrestment to protect from the outside face of the wall to beyond the oversite intersection where easy integration with the oversite gas grade membrane is possible.

Barriers are available in profiles to suit the wall specification and the ground wall / floor construction. The projecting inboard section of a barrier can be straight or cranked to dimensions to suit the floor level. Preformed angles, drops and threshold barriers are manufactured to suit. See subsequent page addressing where service entry points, features, sleeves or projections within a wall interrupt a barrier and how gas barrier integrity is maintained. In some instances the Radon barrier can also act as the wall DPC, eliminating the need for this to be addressed separately.

SPECIFICATION WORDING

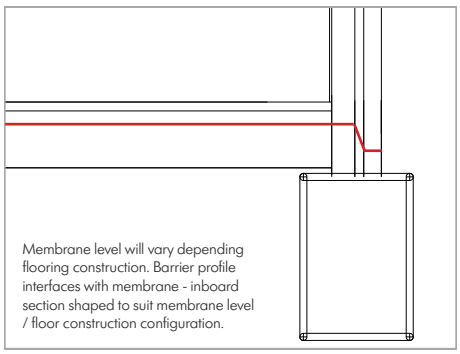
Radon Gas cavity barriers by Cavity Trays of Yeovil Somerset BA22 8HU (01935 474769). Incorporate Radon Cavity Barriers at appropriate levels within all exterior walls. Ensure all barrier lengths, steps and corner profiles are lapped and sealed as accompanying instructions. Inboard section of barrier to lap and be sealed with oversite membrane to provide unpunctuated protection.

DETERMINING YOUR REQUIREMENTS

We recommend advantage is taken of our take-off service. We will be pleased to calculate your requirements and submit a proposal and scheduled for your consideration.

SPECIFICATION WORDING

Radon Cavity Wall Barrier lengths and angles by Cavity Trays of Yeovil Somerset BA22 8HU (01935 474769).



Membrane level will vary depending flooring construction. Barrier profile interfaces with membrane - inboard section shaped to suit membrane level / floor construction configuration.

PRODUCT NAME
Radon Cavity Barriers

DIMENSIONS
Profile to suit wall detail Supplied in 2440mm lengths
Angles / Steps
Preformed to match profile.
Std angles 450mm x 450mm

JOINTING METHOD
Lap and integrity seal strip supplied in 30m rolls

JOINTING METHOD
Lap + integrity seal tape

MATERIAL
Petheleyne CTR 1.4 <1.6

RADON PERMEABILITY
Less than 1.6 $10^{-12} m^2 s^{-1}$

COLOUR
Black

DESIGNERS' COMMENTS

Without uninterrupted interfacing of oversite membrane with cavity barrier, the protection will be discontinuous at one of the most vulnerable points – between floor and wall. Incorporating a cavity barrier that commences at the exterior skin face and projects through and beyond the cavity wall so it can seal with the oversite membrane ensures shielding measures are maximised.