

Oversite protection

USE

Selection can be made from two types of membrane that provide both damp-prevention and radon arrestment qualities. In both instances the radon membrane is applied to the entire oversite and provision is made at all oversite / perimeter wall junctions to integrate with the cavity wall barriers described later. Termed combination membranes because they both offer damp and radon prevention qualities, they differ in the following ways:

Footprint Radon Membrane is a loose-laid membrane supplied in wide rolls. It is primarily designed to be installed below or above a ground bearing slab or over the top surface of a suspended floor. It is manufactured from heavy duty reinforced polyethylene and offers good transmittance and permeability prevention qualities. It is conventionally laid dry with all joints lapped and sealed using integrity bonding tape.

The alternative Membrane is Type N Sitesealer Membrane. Sitesealer is supplied in narrower rolls on a carrier paper that upon removal exposes the self-adhesive edge strip. This permits the membrane to be applied to suitably prepared surfaces and adjoining widths to adhere and thus form a continuous presence.

Type N Sitesealer Membrane consists of a cross-orientated top layer of polyethylene, laminated to a bitumen polymer adhesive base layer. Between these layers is sandwiched a full width aluminium primary integrity sheet. This barrier offers excellent performance with exceedingly low gas permeability.

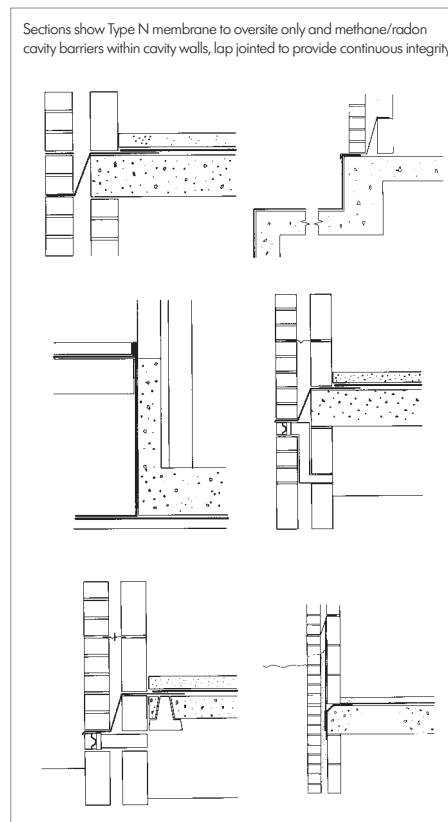
DETERMINING YOUR REQUIREMENTS

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 Gas Oversite Membrane Type
by Cavity Trays of Yeovil Somerset BA22 8HU
(01935 474769).

Install membrane at appropriate stage in accordance with accompanying instructions observing best practice.



PRODUCT NAME	Radon Footprint Membrane
DIMENSIONS – SUPPLIED IN ROLLS	25m x 2m and 4m
WEIGHT	410gm ⁻²
THICKNESS	0.4mm
TENSILE STRENGTH	750N/50mm
TEAR RESISTANCE	>400N
ELONGATION	15-30%
JOINTING METHOD	Lap + integrity seal tape
MOISTURE VAPOUR TRANSMISSION	0.3gm ⁻² 24hr ⁻¹
WATER VAPOUR RESISTANCE	>1024MNsg ⁻¹
RADON TRANSMITTANCE	<20x10 ⁻⁹ ms ⁻¹
RADON PERMEABILITY	<10x10 ⁻¹² m ² s ⁻¹

PRODUCT NAME	Sitsealer Membrane Type N
DIMENSIONS – SUPPLIED IN ROLLS	30sq metre rolls: 28.6 x 1.05m
WEIGHT	1.2Kg/m ²
THICKNESS	1.0mm
TENSILE STRENGTH	230N
PUNCTURE RESISTANCE	N 250 (ASTM E154)
ELONGATION	50%
JOINTING METHOD	Lap + integrity seal tape
MOISTURE VAPOUR TRANSMISSION	<0.1gm ⁻² 24hr ⁻¹
METHANE/RADON PERMEABILITY	<0.03ml/m ² /day/atmos

DESIGNERS' COMMENTS

Consider to provide protection where methane or radon gas is present within the ground. When the Type N underwent the original radon monitoring tests the diffusion co-efficient was reported as being less than 5 x (10⁻¹⁴m²s⁻¹). Type N has a low permeability of both methane and radon gas. The BBA appraisal confirmed use satisfied the appropriate Building Regulations. Footprint Radon Membrane does not incorporate an aluminium layer but is polythene based. Appropriate where protection is limited to horizontal surfaces and there is no accompanying requirement for adhesion to non-horizontal surfaces.