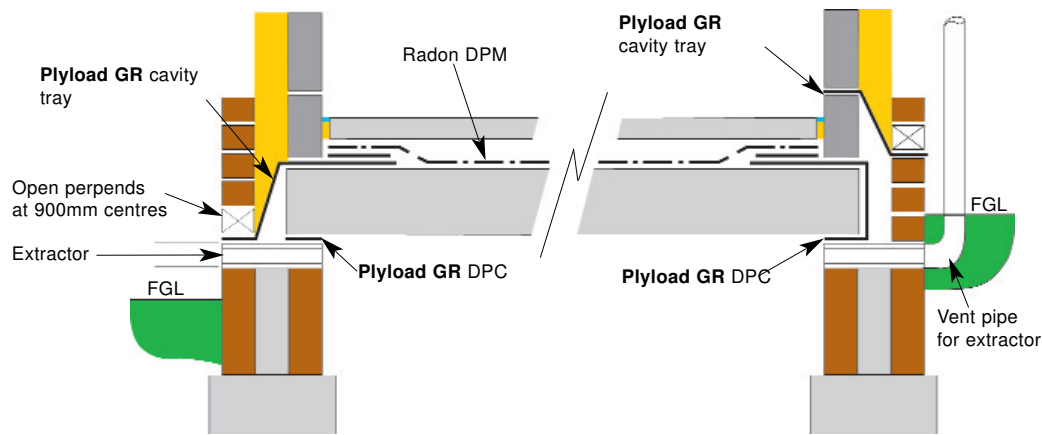
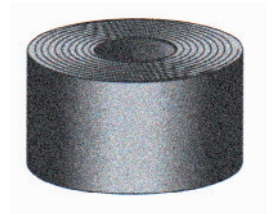


Plyload Gas Barrier High Performance Gas Resistant DPC

The properties of landfill gases are principally determined by the presence of Methane and Carbon Dioxide and any air that these gases are mixed with. The migration of these gases, as a result of diffusion and pressure flow, have increased in recent years, and present a risk to both health and safety in new and existing buildings.



Two examples of an active system where the underfloor is vented



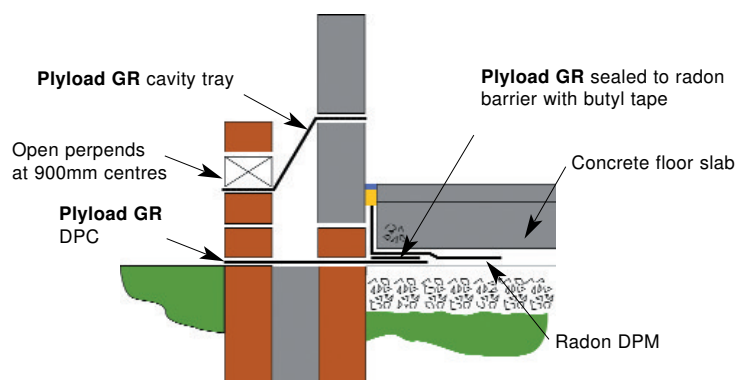
Plyload Standard and Housebuild dpc are covered under the following Agrément Certificate



Radon enters buildings by airflow from the underlying ground. The two methods for sealing against Radon are, the passive system, normally achieved by increasing the airtightness of the damp protection within the floors and walls, and an active system, which requires providing a powered radon extraction system by means of an integral fan.

Landfill gas can enter buildings through gaps around service pipes, cracks in walls below ground and floor slabs, construction joints and cavity walls. In areas where significant concentration of radon is present, sufficient protection can be provided by a well installed damp-proof membrane linked to the damp proof course or sealed to a cavity tray system. Dwellings in areas where higher Radon protection is required should be supplemented by the provision of sub floor ventilation or depressurisation.

Plyload GR provides protection against the ingress of these gases when sealed to both the slab membrane and dpc or cavity tray system. The use of factory welded preformed units, i.e. pipe penetrations, corners, stop ends and changes of level can be used as part of a gas protection scheme for either a passive, or active system. **Plyload GR** conforms to the current requirements for use as part of a gas resistant membrane system.



Example of a passive system

Typical Technical Properties for Plyload GR High Performance Methane and Gas Resistant DPC

Plyload GR

Tensile Strength	BS2782 : 320A	12.9	long	N/mm ²
		11.2	trans	
Tear Strength	BBA method	122	long	N/mm
		96	trans	
Elongation at Break	BS 2782 : 320A	415	long	%
		582	trans	%
Dimension Stability	MOAT 27 : 5.1.6	-2.0	long	%
		-0.3	trans	%
Mortar Adhesion Test	Ceram Method	pass		
Cold Flex Temperature	Bs 2782 : 320A	-60		degrees C
Methane Gas Transmission Rate		0.02		ml/m ² /day

In order to ensure air-tightness we recommend that **Plyload GR** is used in conjunction with cavity trays and cloaks constructed from **Plyload GR**.

<i>Plysolene PIB</i>	Polyisobutylene sheeting insulation membrane
<i>Plysolene ORG</i>	Acid resistant membrane
<i>Plyload®</i>	Polymeric damp proof course
<i>Plyweld</i>	High frequency weldable damp proof course
<i>Insulgard</i>	Multiwall polycarbonate sheet



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