

 Calculation Sheet	Job No.		Sheet No.		Rev.
	260708-00		-		P01
	Member Location				
Job Title		Drg. Ref.			
Reading Green Park Station		Made by	RAD	Date	06-01-2020
				Chd.	-

Ground Gas Protection Measures:

An assessment of the risk from ground gas has been carried out for the new station at Reading Green Park (refer to PBA report 11321/4004 Rev. 01). Ground gas levels and flow rates were found to be variable on site, however this assessment has identified that the building should conservatively be assumed to require gas protection measures appropriate for a characteristic situation 3 according to BS 8485:2015+A1:2019.

In line with the guidance in BS 8485 two elements of protection are to be provided.

Protection measure 1:

The first protection measure is a structural barrier, in the form of a suspended reinforced concrete slab. This provides gas protection score of 1.5.

Protection measure 2;

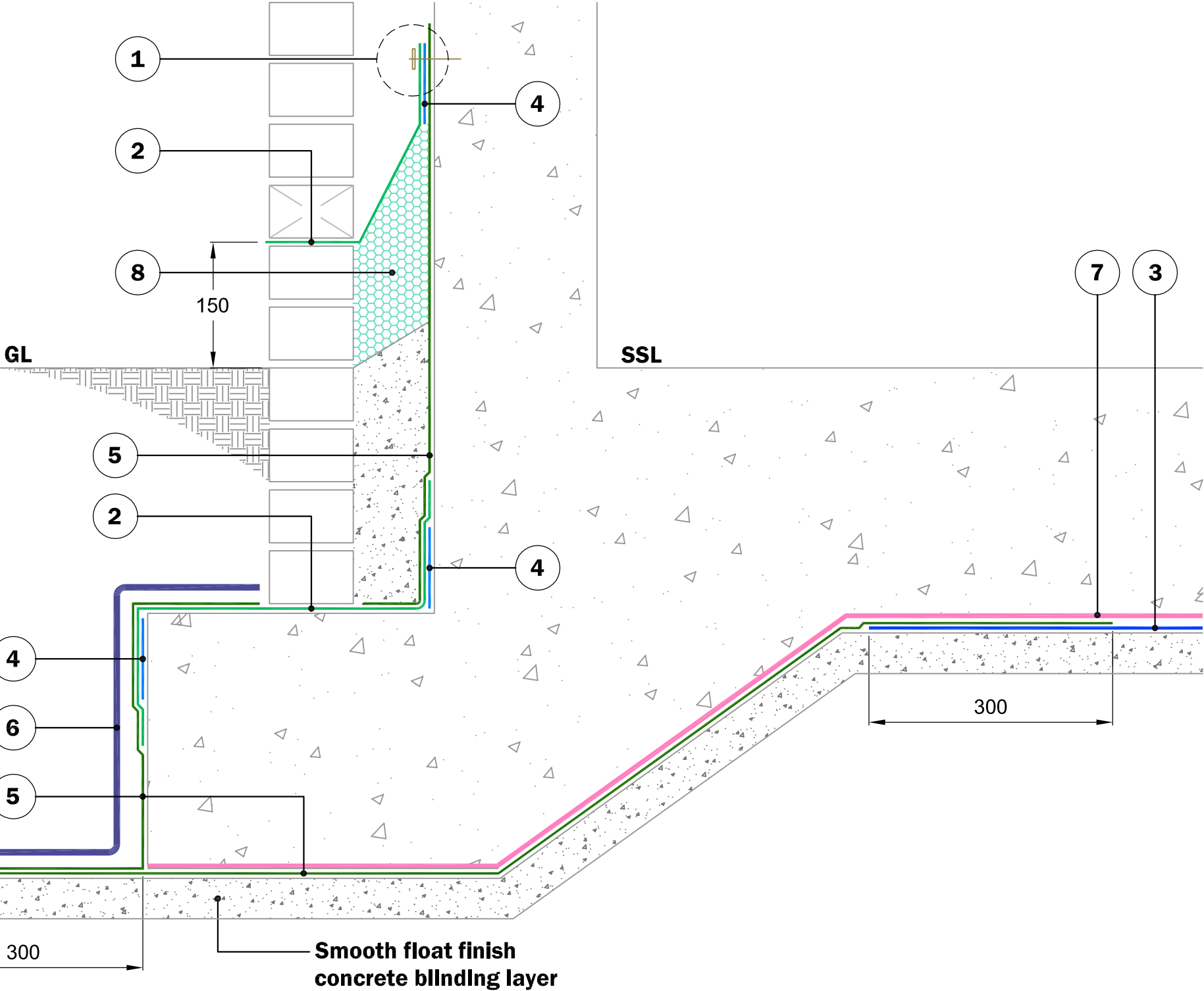
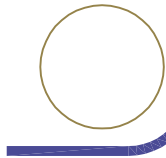
The second protection measure is a gas resistant membrane. The gas resistant membrane will provide a gas protection score of 2, provided it meets the requirements of BS 8485 and is verified in accordance with CIRIA C735 [N1].

A typical detail, provided by Visqueen, is appended to this note. This, or a similar approved detail is to be adopted. Detailed design of the membrane protection will be specialist subcontractor.

The combined structural barrier and gas resistant membrane will provide an overall gas protection score of 3.5, in excess of the required 3.

KEY TO MATERIALS :-	
1	Visqueen Fixing Strip System with suitable fixings.
2	Visqueen GR DPC.
3	Visqueen Gas Barrier.
4	Visqueen Double Sided Tape (15m x 100mm).
5	Visqueen GR SAM on Visqueen HP Tanking Primer.
6	Visqueen Protect&Drain 12mm.
7	Visqueen TreadGUARD 1500.
8	Rigid insulation by others to support gas DPC.

Maintainable
land drain
(100mm Ø min.)



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Detail issued for Guidance Only.
Designer's Approval Required.

Site construction sequencing should be assessed before the appropriate Visqueen Standard Detail is selected & approved by the Designer.

In order to develop a robust design for protecting a structure against groundwater, a Risk Assessment must be carried out in line with the guidance given in BS8102:2009.

The Designer may need to specify one or a combination of waterproofing measures.

All Visqueen materials must be installed in strict accordance with the manufacturer's instructions. Refer to the current Visqueen datasheets.

Do Not Scale - Use Figured Dimensions Only.

Standard Detail



www.visqueen.com

Scale : NTS

Date : Dec.2018

Drawing No : GB-25



Typical RC Slab Edge Detail (Gas Protection).

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