

Product Information Bulletin

NBC 2005 and 2010 Dampproofing and Waterproofing Requirements

The tables below provide dampproofing and waterproofing requirements for below grade walls constructed using the Advantage ICF System[®] for Part 9 (residential) applications as per the National Building Code of Canada 2005 & 2010. **NOTE:** Contact a Plasti-Fab sales representative for recommendations on specific dampproofing and waterproofing materials available in your area.

Table 1 – NBC 2005 & 2010 Dampproofing and Waterproofing Requirements

Foundation Dampproofing Requirements – NBC Subsection 9.13.2.	
Except as provided in Article 9.13.3.1., where the exterior finished ground level is at a higher elevation than the ground level inside the foundation walls, exterior surfaces of foundation walls below ground level shall be dampproofed.	Sentence 9.13.2.1.(1)
Except as otherwise specified in this Section, materials used for exterior dampproofing shall conform to Article 9.13.2.2.	Article 9.13.2.2.
The surface of insulating concrete form walls that are to be dampproofed shall be repaired and free of projections and depressions that could be detrimental to the performance of the membrane to be applied.	Sentence 9.13.2.4.(3)
Foundation Waterproofing Requirements – NBC Subsection 9.13.3.	
Where hydrostatic pressure occurs, waterproofing is required for the exterior surfaces of below ground walls, where the exterior finished ground level is at a higher elevation than the ground level inside the <i>foundation</i> walls.	Sentence 9.13.3.1.(1)
Except as otherwise specified in this Section, materials used for exterior waterproofing shall conform to Article 9.13.3.2.	Article 9.13.3.2.
The surface of insulating concrete form walls that are to be waterproofed shall be repaired and free of projections and depressions that could be detrimental to the performance of the membrane to be applied.	Sentence 9.13.3.4.(3)

Table 2 – Dampproofing and Waterproofing Materials

Dampproofing Materials
Vacuum-reduced asphalt dispersed in a mineral colloid emulsifier can be applied to the exterior face of the Advantage ICF System following manufacturer instructions; however, it should be noted that liquid coatings will not bridge gaps between insulation panels, so vertical joints between ICF blocks that are not butted tightly together must be filled before application. <u>NOTE: The specific product used must be recommended as compatible for use with EPS insulation. Do not apply highly solvent extended asphalt emulsions as they are not compatible with EPS insulation.</u>
Alternatively, several types of dimpled sheet membranes, such as Superseal Dimpled Membrane (see CCMC 13099-R), have been evaluated for use as dampproofing materials by the Canadian Construction Materials Centre (CCMC). Follow membrane manufacturer instructions for installation.
Waterproofing Materials
Several manufacturers of sheet type peel and stick membranes provide product intended for use with EPS insulation. Follow membrane manufacturer's instructions for installation, including application of a primer coat where required, to ensure best adhesion to the exterior face of Advantage ICF System.