

Product Information Bulletin

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NBC 2005 and 2010 Dampproofing and Waterproofing Requirements

This bulletin discusses dampproofing and waterproofing provisions per the National Building Code of Canada (NBC) 2005 and 2010 applicable to walls constructed using the Advantage ICF System®. The tables below summarize prescriptive requirements for NBC Part 9 (residential) applications.

Table 1 – NBC 2005 and 2010 Dampproofing and Waterproofing References

Foundation Dampproofing Requirements – 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 – 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 requirements 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 – Advantage ICF System Dampproofing and Waterproofing Recommendations

<p>Dampproofing Materials: Mineral colloid emulsifiers can be applied to the exterior face of the Advantage ICF System. Follow manufacturer instructions for application; however, it should be noted that liquid coatings will not bridge gaps between insulation panels, so vertical expanded polystyrene (EPS) insulation panel joints that are not butted tightly together must be filled before application. The specific product used must be recommended as compatible for use with EPS insulation. NOTE: Do not apply highly solvent extended asphalt emulsions as they are not compatible with EPS insulation.</p> <p>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). Membrane manufacturer instructions for installation as a dampproofing membrane must be followed when installing on the Advantage ICF System.</p> <p>Waterproofing Materials: Several manufacturers of sheet type peel and stick membranes provide product intended for use with EPS insulation. Follow membrane manufacturers installation requirements, including application of a primer coat where necessary, to ensure best adhesion to the exterior face of Advantage ICF System.</p>
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NOTE: Contact an Advantage ICF System sales representative for recommendations on specific products available in your area.