



## Evaluation Report CCMC 14013-R DRlcore® SmartWall

**MASTERFORMAT:** 09 29 30  
**Evaluation issued:** 2015-05-01  
**Re-evaluation due:** 2018-05-01

### 1. Opinion

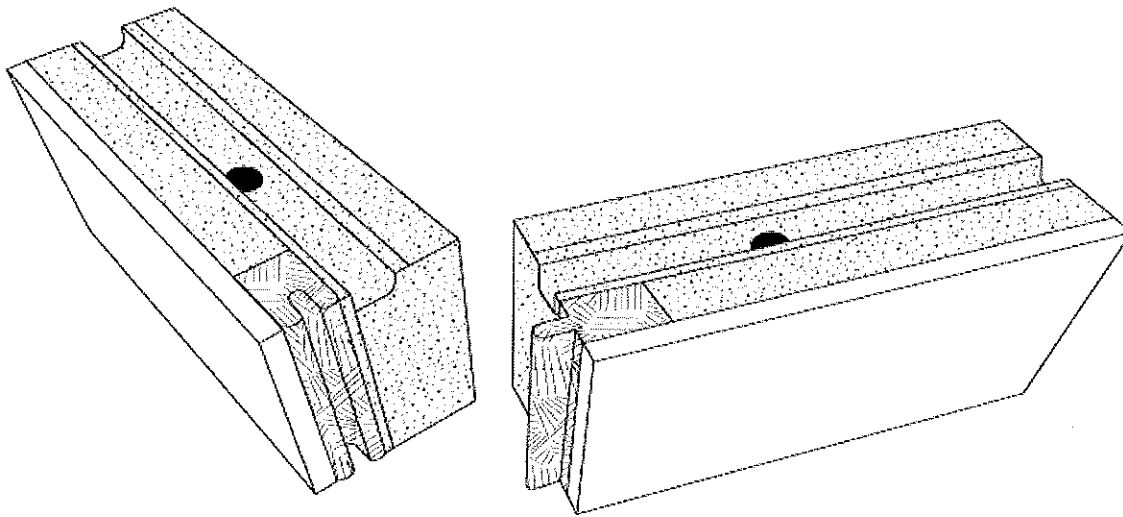
It is the opinion of the Canadian Construction Materials Centre (CCMC) that “DRlcore®SmartWall”, when used as a finish wall system for the basement in residential housing in accordance with the conditions and limitations stated in Section 3 of this Report, complies with the National Building Code 2010:

- Clause 1.2.1.1.(1)(a), Division A, using the following acceptable solutions from Division B:
  - Article 9.10.17.1., Flame Spread Rating of Interior Surfaces
  - Article 9.10.17.10., Protection of Foamed Plastics
  - Article 9.13.2.6., Moisture Protection for Interior Finishes
  - Article 9.23.2.3., Protection from Dampness
  - Article 9.25.2.2., Insulation Materials
  - Article 9.29.5.2., Materials (Gypsum Board Finish (Taped Joints))
- Clause 1.2.1.1.(1)(b), Division A, as an alternative solution that achieves at least the minimum level of performance required by Division B in the areas defined by the objectives and functional statements attributed to the following applicable acceptable solutions:
  - Article 9.25.2.1., Required Insulation

This opinion is based on CCMC’s evaluation of the technical evidence in Section 4 provided by the Report Holder.

### 2. Description

“DRlcore® SmartWall” panels are prefabricated non-loadbearing wall panels for the interior finish of the basement of detached or semi-detached housing. The panels consist of integrated framing, insulation, vapour barrier and drywall with a tongue and groove system to interlock the panels together. The panels are 600 mm wide and 2.44 m high. Two vertical channels and three horizontal channels are included for electrical wiring.



**Figure 1. Front view of the product**

### **3. Conditions and Limitations**

CCMC's compliance opinion in Section 1 is bound by the "DRICore® SmartWall" being used in accordance with the conditions and limitations set out below.

- Use of the product is permitted for finishing the basement of houses up to two storeys high that fall under the provisions of Part 9 of Division B of the NBC 2010, subject to all of the conditions listed below.
- The gypsum board finish must be in accordance with Subsection 9.29.5., Gypsum Board Finish (Taped Joints), of Division B of the NBC 2010.
- The EPS insulation used in this system must comply with CAN/ULC-S701-11, "Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering," Type 1.
- Foamed plastic insulation in the panel must be protected from the adjacent space in the building in accordance with Article 9.10.17.10. of Division B of the NBC 2010.
- The interior finish panels must be protected from moisture in accordance with Article 9.13.2.6. of Division B of the NBC 2010.
- Installation of the product must be in compliance with the "AGT Products Inc. Installation Manual," Version 1.0 Revision 1.10 dated 2014-11-27.

### **4. Technical Evidence**

The Report Holder has submitted technical documentation for CCMC's evaluation. Testing was conducted at laboratories recognized by CCMC. The corresponding technical evidence for this product is summarized below.

#### **4.1 Material Requirements**

##### **4.1.1 Compliance of the EPS Thermal Insulation**

NEOPOR® expanded polystyrene thermal insulation is a critical component that is certified in accordance with CAN/ULC-S701-11 by Warnock Hershey (WH-ETL).

##### **4.1.2 Compliance of OSB Studs**

The OSB studs are cut from rim board material listed under CCMC 13237-L in accordance with ANSI/APA PRR 410-2011.

##### **4.1.3 Compliance of Gypsum Board**

The 12.7-mm-thick gypsum boards are manufactured in accordance with CAN/CSA-A82.27-M91, "Gypsum Board."

## 4.2 Performance Requirements

### 4.2.1 Compliance with Plastic Foam Insulation Protection

Table 4.2.1.1 Results of Testing

| Assembly   | Tested to Standard  | Results  | Classification  |
|--|---|--|---|
| DRiCore® SmartWall<br>(12.7-mm-thick gypsum board,<br>88.9-mm-thick polystyrene,<br>44.5-mm × 31.7-mm tongue<br>and groove OSB,<br>synthetic resin adhesive) | CAN/ULC-S124-06, "Standard Method<br>of Test for the Evaluation of Protective<br>Coverings for Foamed Plastic"                            | At the end of 10 minutes, the<br>temperature rise at the interface of the<br>protective cover and the foamed plastic<br>has not exceeded 140°C average or<br>180°C at any one of the thermocouples | B<br>Satisfies Appendix Note<br>A-3.1.5.12.(2)(e),<br>Foamed Plastic Insulation<br>Protection, of Division B<br>of the NBC 2010 |
|  | ASTM C 518-10. "Standard Test<br>Method for Steady-State Thermal<br>Transmission Properties by Means of the<br>Heat Flow Meter Apparatus" | Thermal resistance of RSI 2.59 at 103.6-<br>mm-thick wall  | —   |

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