



# Evaluation Report

## CCMC 13302-R

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## ***Sure Touch***

### **1. Opinion**

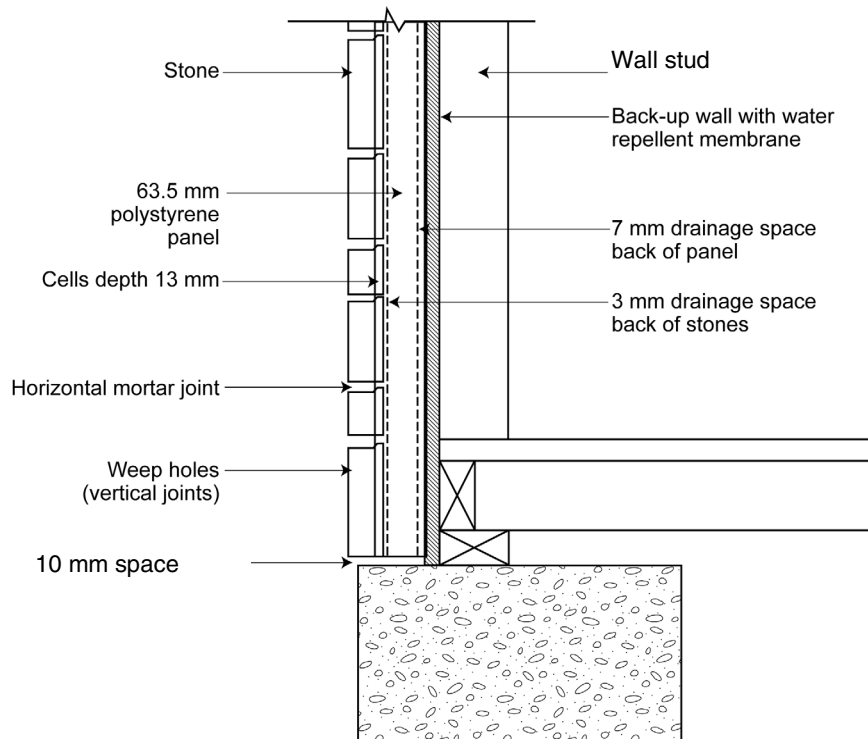
It is the opinion of the Canadian Construction Materials Centre (CCMC) that “Sure Touch,” when used as a masonry veneer cladding for buildings falling under the scope of Part 9 in accordance with the conditions and limitations stated in Section 3 of this Report, complies with the National Building Code of Canada (NBC) 2005:

- 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 solution:
  - Article 9.20.6.4.

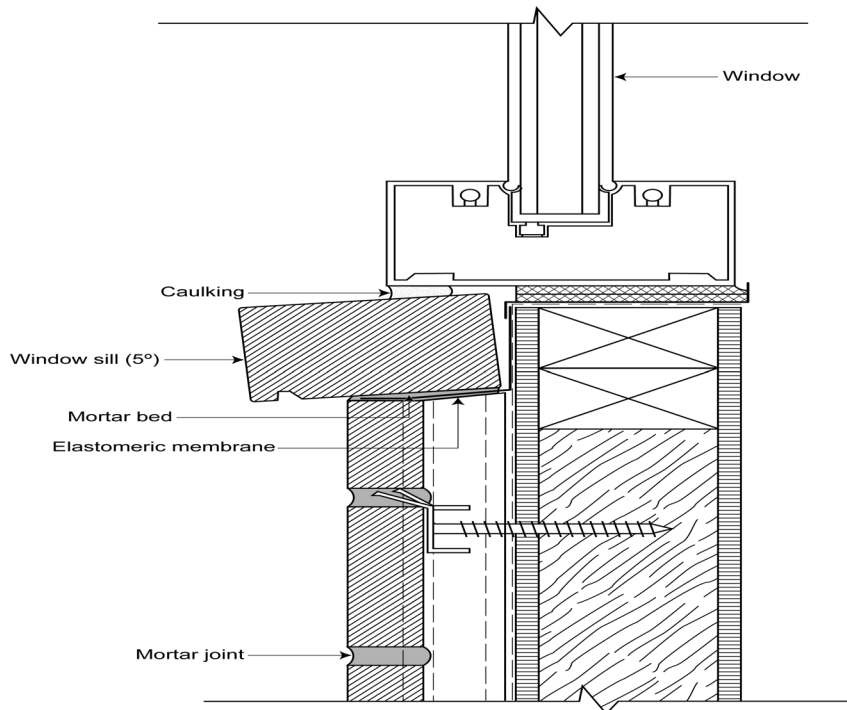
This opinion is based on CCMC’s evaluation of the technical evidence in Section 4.1 provided by the Report holder.

### **2. Description**

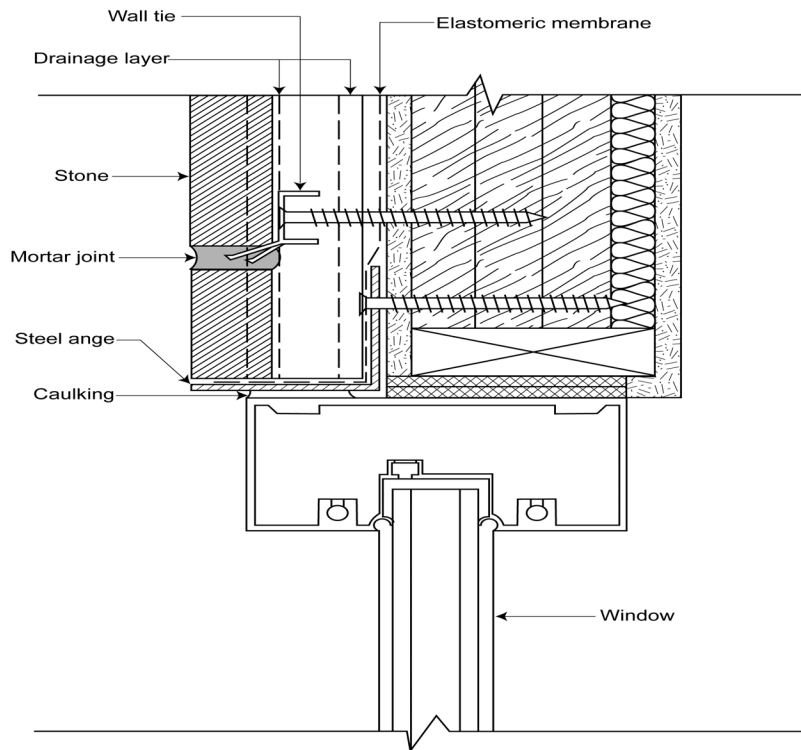
“Sure Touch” is a concrete brick or stone facing veneer wall cladding system made of thin masonry units, which are manufactured from a mixture of Portland cement, water and suitable aggregates, with or without the inclusion of other materials. During the installation, each thin masonry unit is friction fitted into a molded cell of a polystyrene panel. The polystyrene panel is molded into a pattern that predetermines the location and size of the brick or stone. The polystyrene panel is fastened to the wall studs using special ties. The bricks or stones are 45 mm thick and once they are installed in the panel, their joints are filled with mortar. Finally, the mechanical resistance of the facing veneer is insured by the ties projecting between the masonry units; these projections are completely embedded in the joints of the mortar, so the ties bind the cladding to the studs of the wall they cover.



**Figure 1. "Sure Touch" wall cladding system cross-section.**



**Figure 2. "Sure Touch" windowsill cross-section.**



**Figure 3. “Sure Touch” lintel cross-section.**



**Figure 4. “Sure Touch.”**

### 3. Conditions and Limitations

CCMC’s compliance opinion in Section 1 is bound by “Sure Touch” being used in accordance with the conditions and limitations set out below.

- “Sure Touch” thin concrete masonry finish system may be used as cladding for wood-frame housing conforming to Part 9 of Division B of the NBC 2005.
- “Sure Touch” thin concrete masonry finish system may be used on one- and two-storey wood-frame housing using Table 9.23.10.1. of Division B of the NBC 2005 for size and spacing of studs. Studs grade shall be S-P-F #2 or better.
- “Sure Touch” connectors must have a corrosion protection coating or be made of stainless steel.
- The steel flashing and counterflashing units holding the windowsill must comply with section 3.1 of CSA S136-94, “North American Specification for the Design of Cold-Formed Steel Structural Members,” and have a minimum protection coating of 275 g/m<sup>2</sup> (G90) or better.
- The wall sheathing membrane must conform to Article 9.27.3.2. of Division B of the NBC 2005 and must be installed on the wall sheathing prior to installing the polystyrene panels.
- An elastomeric membrane or metallic flashing must be used for flashing above window and door openings.
- The wall sheathing membrane shall overlap the elastomeric membrane by at least 100 mm.
- Installation must follow the manufacturer’s current instructions. Detailed instructions for the installation of the masonry veneer must be in accordance with the installation manual dated November 2007.
- Maximum wind load shall be limited to ≤ 1 kPa.
- No earthquake resistance study has been provided at this time.
- For seismic areas, a professional engineer shall be consulted for compliance with Part 4, Division B, NBC 2005.
- This product must be identified with the phrase “CCMC 13302-R.”

### 4. Technical Evidence

CCMC’s Technical Guide for Sure Touch sets out the nature of the technical evidence required by CCMC to enable it to evaluate a product as an acceptable or alternative solution in compliance with the National Building Code 2005. The Report holder has submitted test results, and engineering analysis for CCMC’s evaluation. Testing was conducted at independent laboratories recognized by CCMC. The corresponding test results for “Sure Touch” are summarized below.

#### 4.1 NBC 2005 Compliance Data for “Sure Touch” on which CCMC Based its Opinion in Section 1

**Table 4.1.1. Moisture Management**

Property	Unit	Requirement	Result
Moisture management	No unit	No water penetration	No water (Pass)

**Table 4.1.2. Structural Performance of Exterior Dimension Stone Cladding Systems by Uniform Static Air Pressure Difference**

Property	Unit	Requirement	Result
Represents the effect of wind loads on exterior building's surface elements	kPa	NBC 2005, Division B, Appendix C, Table C-2, Hourly Wind Pressure kPa	± 2.15

**4.1.1 Conditions and Limitations Related to Section 4.3**

Failure to conform to the conditions and limitations set out hereunder does not invalidate CCMC's opinion concerning "Sure Touch" compliance with the NBC 2005.

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