

**07270**  
Short Form Guide Specification

**AIR BARRIER  
BUILDING WRAP**

January 2002

This specification was prepared by:  
Chris Johnson, RSWMAATO, CCS  
Cambridge (Ontario)  
Modified in 2005 by The Dow Chemical Company

2002 01 01  
Dow Chemical Canada ULC  
WEATHERMATE® Plus Housewrap

SPEC NOTE: Following are suggested specification paragraphs to be used when specifying a building wrap membrane as an air barrier under Section 07270. Insert the required paragraphs into the Section under the noted Articles, and make any required selections, such as roll size. Where selection is indicated with an [OR] statement, select the appropriate paragraph and delete the inappropriate statement. Delete all SPEC NOTEs and [OR] statements prior to final printing.

DISCLAIMER: The manufacturer has reviewed the product information contained in this short form specification and is responsible for its accuracy. The information is organized and presented to assist the specification writer working on a construction project to select the appropriate products and to save time in writing the project specification Section and is not intended to replace the manufacturer's printed installation instructions. The specification writer is responsible for product selection as well as the use and application of this information, and should contact the manufacturer to ensure that all options are available and that the associated specification information is valid and correct.

## 2.1 MATERIALS

1. Building Wrap: non-woven, non-perforated polyolefin-based membrane, 2744 mm or 2896 mm wide rolls; and having the following properties when tested to the following guides/standards.
  1. Air Leakage (CCMC Technical Guide 07273): [0.02 L/s-m<sup>2</sup> minimum] @ 75 Pa.
  2. Water Vapour Permeance (ASTM E96): 286 ng/Pas m<sup>2</sup> [5 perms] minimum.
  3. Tensile Strength (ASTM D882): 4.5N/25mm minimum.
  4. Manufacturer and Product Name: WEATHERMATE® Plus Housewrap.
2. Sheathing Tape: CCMC evaluated sheathing tape; eg. Tuck 20502 by Canadian Technical Tape, Ltd. or 1585 cw-p2/48001 Sheathing Tape by Venture Tape Corp.
3. Fasteners: [plastic cap nails] [OR] [rust-resistant screws with washer heads.]

## 3 Execution

### 3.1 INSTALLATION

1. Position joints or laps of sheets over studs or other film bearing in order to achieve an effective and permanent seal.
2. Install building wrap horizontally with print side facing out.
3. Position bottom edge of building wrap to overlap foundation 25 mm minimum.
4. Position top edge of building wrap to cover edges of top plates.
5. Overlap vertical seams minimum 150 mm and seal with sheathing tape. Ensure weathertight bond.
6. Overlap horizontal seams minimum 150 mm shingle fashion and seal with sheathing tape. Ensure weathertight bond.
7. Secure building wrap to framing members with plastic cap nails spaced at 150 mm OC. Ensure fasteners penetrate sheathing at least 13 mm.

2002 01 01  
Dow Chemical Canada ULC  
Short Form Guide Specification - Air Barrier Building Wrap  
WEATHERMATE<sup>®</sup> Plus Housewrap

8. Cut building wrap at wall opening in accordance with manufacturer's printed installation instructions. Pull flaps to inside of opening and fasten to inside face of framing with fasteners spaced at 150 mm OC. Trim excess membrane.

9. Seal penetrations with sheathing tape to shed water and prevent air infiltration.

### 3.2 PROTECTION

1. If building wrap is to remain exposed for 60 days or more, protect it from direct sunlight.

END OF SHORT FORM