



Building & By-Law Division

Department of Planning, Development and Recreation

In this edition:

- ❖ Cap Fastening of Sheathing Membrane

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CodeTECH Newsletter

Volume V

In this edition of the CodeTECH Newsletter will focus on sheathing membranes and the requirement to use cap fasteners.



DISCLAIMER: For discussion purposes the three prominent sheathing membranes that are seen in the City of Cornwall are TYPAR®, TYVEK® and NovaWrap™. please note that the City does not endorse one product over another and remains impartial in the selection of the sheathing membrane that is used.

Any sheathing membrane shall conform to the performance requirements of CAN/CGSB-51.32M, "Sheathing, Membrane, Breather Type".

All of these products have CCMC approvals. These approvals require that the installation of these products be done in accordance with the manufactures installation guidelines (Including Cap Fasteners).

For convenience the CCMC listings have been provided:

TYVEK®: CCMC #12808-R & CCMC #12857-R

TYPAR®: CCMC #12884-R & CCMC #12892-R

NovaWrap™: CCMC #13292-R & CCMC #13329-R

Sheathing membrane installed as an Air-Barrier shall be installed with cap fasteners in accordance with manufacturers' specifications.



HOW TO INSTALL HOUSEWRAP IN ACCORDANCE TO CMCC'S GUIDELINES

Please consult the installation instructions from the various manufacturers' for **complete details**; the following information is extracted from the respective manufactures' requirements for installation, focusing primarily on the requirement for cap fasteners.

Tyvek® HomeWrap™ Breather-type Sheathing Membrane and HouseWrap/CertaWrap™:



Secure DuPont™ TYVEK® sheathing membrane to the stud or other nail-based material, i.e. wood sheathing. Fasteners should be spaced no closer than 6" and no farther than 18" on vertical and horizontal stud lines. Do not install fasteners within 9" of the head of the window rough openings.

If staples without caps are used to temporarily fasten DuPont™ TYVEK® WRB to OSB, plywood or exterior gypsum sheathing, the fastening schedule must not exceed 4 per square yard. If installing as an air barrier, each staple must be covered with DuPont™ TYVEK® Tape. Covering the staples underneath a taped air and water barrier seam is also acceptable if installing DuPont™ TYVEK® WRB as an air barrier. Staples should not be used with fiberboard or foam sheathing.

Typar® Installation Guidelines:

Plastic-capped fasteners should be used and spaced at 32" o/c (vertically and horizontally) when being applied over 7/16" OSB or 15/32" plywood. Fasten the Typar® to the stud using plastic-capped nails or plastic-capped staples.



NovaWrap™ Aspire™ Installation Instructions:

Extend around corner starting point by at least 6", attach membrane so that it is tight and flat. Plastic-capped fasteners with sufficient length to penetrate the stud framing or foam board shall be used. Fasteners to be spaced every 6" at the perimeter of the wall and around door and window openings and between 12" to 18" along the vertical framing members.



Capped fasteners



How this will affect you: Effective July 1st, 2019 Building Officials will be inspecting at the Pre-Cladding stage that sheathing membranes are cap fastened in accordance with the manufacturers specifications.