



# APPLICATION INSTRUCTIONS

## ENERMAX INSULATION AND VAPOUR RETARDER

### TECHNICAL ESTIMATE

Note to specifiers: the contents of this specification may form a separate document or can be incorporated into Division 07 — Thermal and Moisture Protection of the project's technical specification. Please consult the illustration for details on installation.

### SECTION 1 - GENERAL INFORMATION

#### **1.1] Overview**

ENERMAX™ insulation is a rigid panel produced from non-toxic organic wood fibers, and factory-laminated with an aluminum skin to block water vapour, sound and air infiltration. Install ENERMAX™ on “warm-in-winter” side of framing, over inner walls or ceiling.

#### **1.2] Related Work**

<b>1]</b> Miscellaneous carpentry	section 06 10 53
<b>2]</b> Blanket insulation	section 07 21 16
<b>3]</b> Vapour retarders	section 07 26 00
<b>4]</b> Joint sealants	section 07 92 00
<b>5]</b> Board Insulation	section 07 21 13

#### **1.3] Reference Standards**

- 1]** CAN/CGSB-51.33-M89  
- Vapour Barrier Sheet, Excluding Polyethylene, for Use in Building Construction
- 2]** National Building Code of Canada 2015, Section 9.25
- 3]** CAN/ULC-S706-09 Type II Class 7
- 4]** NMS (Canadian National Master Construction Specification)

#### **1.4] Job Site Storage**

At the construction site or warehouse, insulation boards should be kept at least 152 mm (6 in.) from the ground.

Keep away from rain and snow with a waterproof plastic cover.

### SECTION 2 - PRODUCTS

#### **2.1] Materials**

**1]** A composite wood fibre board factory-laminated with a water vapour impermeable aluminum skin in compliance with CAN/CSBG-51.33-M standard, as per the ENERMAX™ panel manufactured by BP.

- Thickness: 12.5 mm (1/2")

- Size : 1219 mm × 2464 mm (48" x 97")

- Thermal resistance : Increases thermal resistance of the wall assembly by RSI-0.50 (R2.84) (combination Enermax panel / air gap – see CCMC report 13494-R).

**2]** Nails or staples for temporary fastening.

**3]** Acrylic adhesive coated polypropylene contractor sheathing tape, such as Canadian Technical Tape Ltd “Tuck 20502”, 60 mm (2 3/8”) wide, or any adhesive aluminum foil tape.

**4]** Acoustic sealant in compliance with CAN/CGSB-19.21-M87 standard.

**5]** Polyethylene sheet or plastic airtight receptacles for electrical outlets.

### SECTION 3 - APPLICATION

#### **3.1] Installation**

**1]** Space between framing studs over which panels will be applied must not exceed 610 mm (24 in.).

**2]** Support panel edges and joints with wedges or framing studs.

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**3]** On walls, install 1219 mm × 2464 mm (48" x 97") panels vertically.

**4]** On ceiling, install panels parallel to joists or roof trusses.

**5]** Cut panels to exact size and position around doors, windows and other openings.

### 3.2] Fastening & Sealing

**1]** Temporarily fasten panels over studs or wedges with nails or staples.

**2]** Make sure nail heads do not pierce the vapor retarder. This may diminish vapor permeance performance.

**3]** Cover all panel joints with an adhesive tape.

**4]** Use sealant to cover joints created by panels and other surfaces such as floors, door/window frames and, if applicable, the ceiling's sheathing system.

**5]** Fasten furring to walls horizontally.

**6]** Install electrical outlets, switches, etc. making sure the vapor retarder remains airtight:

- Apply one polyethylene sheet or airtight box in the opening designated for the electrical box, fasten to panel and seal.

- Fasten electrical boxes to installed furring. Pass electrical wires in the space between ENERMAX™ panels and gypsum boards.

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