**Product Information Sheet**

# DuPont™ RainVent™ Batten

## A Durable, Waterproof Alternative to Wood Furring Strips

### Description

**DuPont™ RainVent™ Batten** furring strips are made for durable performance and compatibility with **DuPont™ Tyvek® WRBs,** as well as other water-resistive barriers (WRBs). The unique ventilated design of **DuPont™ RainVent™ Batten** furring strips helps prevent water damage and mold behind typical residential claddings, such as siding, stucco, adhered masonry, and other exteriors.

When installed over a WRB, **DuPont™ RainVent™ Batten** furring strips create an intentional ventilated airspace between the cladding and the sheathing to improve drying and help reduce the chances of moisture damage and mold.

### How It Works

In typical wood-framed wall construction, a WRB is installed over sheathing. **DuPont™ RainVent™ Batten** furring strips are then installed over the DuPont™ Tyvek® WRB. Polypropylene construction makes them more durable and less susceptible to water damage than wood furring strips.

The ventilated air space created between exterior cladding and wall sheathing allows air circulation vertically and horizontally to help ventilate the air space to enhance drying and form a capillary break from sheathing.

### Features and Benefits

**DuPont™ RainVent™ Batten** furring strips offer many advantages, including:

- Allows air circulation behind wood, stucco, or adhered masonry, vinyl, panel siding, and fiber cement cladding types
- Provides a vertically and horizontally ventilated cavity to enhance drying and a capillary break from sheathing
- Moisture dissipates quickly, helping preserve wall sheathing and framing
- Can reduce risk of mold growth and water damage
- Polypropylene construction ensures more durability and less susceptibility to water damage than wood furring strips
- Light-weight and easy to install
- Helps reduce degradation of exterior cladding
- Eliminates the use of furring strips made with pressure-treated material
- Stapled installation means no more expensive stainless-steel fasteners
- Meets or exceeds applicable US Building Codes, National Building Code of Canada capillary break requirement for high moisture index, and Oregon Residential Specialty Code

## TESTING – 3-COAT STUCCO WALL SYSTEM

**TABLE 1: Negative Wind Pressure**

| Negative Wind Pressure | | | | |
|---|---|---|---|---|
| | | | Allowable Wind Velocity (MPH) | |
| Configuration | Ultimate Pressure (PSF) | Allowable Pressure (PSF) | Exp. B | Exp. C |
| Stucco | 177 | 44.3 | 136 | 120 |

**TABLE 2: Gravity Loads**

| Gravity Loads | | |
|---|---|---|
| Configuration | Ultimate Pressure (PSF) | Allowable Gravity Load (psf) |
| WSA | 2500 | 44.3 |

**TABLE 3: Siding Wall System**

**Wall System A (WS-A) –** System with staples and without continuous exterior insulation
**Wall System B (WS-B) –** System with nails and with continuous exterior insulation

| Negative Wind Pressure | | | | |
|---|---|---|---|---|
| | | | Allowable Wind Velocity (MPH) | |
| Configuration | Ultimate Pressure (PSF) | Allowable Pressure (PSF) | Exp. B | Exp. C |
| WS-A | 163 | 52.23 | 147 | 130 |
| WS-B | 198 | 63.4 | 162 | 143 |

| Configuration | Ultimate Pressure (PSF) | Allowable Gravity Load (psf) | |
|---|---|---|---|
| | | Lbs/wood plank | psf |
| WS-A | 163 | 147 | 130 |
| WS-B | 198 | 162 | 143 |

## Applications

- The polypropylene construction makes a durable alternative to the wood furring strip that is widely used in today's industry
- In a typical wood framed wall construction, a water-resistive barrier (WRB) is installed over sheathing and the window is installed and flashed at the sheathing interface
- Ventilation behind the cladding is enhanced by **DuPont™ RainVent™ Batten** furring strips which are installed over the **DuPont™ Tyvek® WRB**
- For optimal drying performance, ventilation opening should be included at the top and bottom of the wall to allow airflow

*See complete installation guidelines found on building.dupont.com.*

## Shelf Life and Storage

- When stored between 32°F and 100°F, **DuPont™ RainVent™ Batten** furring strips have a shelf life of 180 days
- While palletized until use, cover to protect from the elements to preserve the integrity of the product

## Approvals and Specifications

**DuPont™ RainVent™ Batten** furring strips meet the requirements of these industry specifications and standards.

- Compliant with Oregon Residential Specialty Code R703.1
- Meets National Building Code of Canada capillary break requirements for high moisture index
- Meets or exceeds applicable US Building Codes

## Packaging

- **DuPont™ RainVent™ Batten** furring strips come in convenient 40-piece bundles, (320 lf) weighing 17.76 lbs
- Each bundle size is 4" x 6.5"x 8'
- 77 bundles per pallet
- Pallets are wrapped in plastic during transport
- Pallet weight is 1,367 lbs net wt, gross weight 1,460 lbs

## Specifications

- 3/8" thick x 1-5/8" wide x 8' long
- 10 mm polypropylene fluted construction
- Cuts easily with a utility knife or scissors

## Limitations

Should **not** be used as:

- Roof batten
- Structural support or cladding
- Not approved for use with steel framed commercial structures

# DuPont™ RainVent™ Batten

To improve the ventilation and draining space behind a cladding system or 3-coat stucco system in residential construction

## SYSTEM OVERVIEW

The **DuPont™ RainVent™ Batten** is intended for use on stud walls with studs spaced at 16" or less and OSB or plywood sheathing.

### Battens:

The **DuPont™ RainVent™ Batten** is a polypropylene corrugated batten product with flow through ventilation channels installed between the control layer and the siding/stucco system. The battens are 3/8" thick, 1-5/8" wide and 8' long.

### Wall Preparation:

For proper installation of DuPont™ Tyvek® Water-Resistive Barriers (WRBs) refer to the applicable installation guidelines found on building.dupont.com.

Where DuPont™ Styrofoam™ Brand Extruded Polystyrene Insulation or other exterior continuous insulation is provided on the exterior face of the OSB/plywood sheathing, a maximum of 1" thick code compliant insulation board shall be used and it shall be installed in accordance with the manufacturers recommendations. It is recommended to use DuPont™ Tyvek® DrainWrap® between foam and sheathing.

### DuPont™ RainVent™ Batten Installation:

**Installations over 1/2" OSB or plywood intended for wood or cement cladding (Diagram 1)**

- Place the battens over Tyvek® WRB at 16" on center and align with the wall studs. Secure **DuPont™ RainVent™ Batten** furring strips in place with 1" crown, 1-1/4" long staples at 16" on center or other approved fasteners capable of penetrating the studs by 1/2".

**Installations over 1" insulation intended for wood or cement cladding (Diagram 2)**

- Place DuPont™ Tyvek® DrainWrap™ between sheathing and foam. Place battens on foam, and install siding.

**Installations over 1" insulation intended for stucco (Diagram 3)**

- Place the **DuPont™ RainVent™ Battens** over Tyvek® WRB at 8" on center with every other batten aligned with the wall studs. Secure battens in place with 2" x 0.120" shank diameter galvanized roofing nails at 16" on center.
- Install a layer of DuPont™ Tyvek® HomeWrap® over the **DuPont™ RainVent™ Battens** and secure with staples or other approved fasteners. (This will prevent the scratch coat from blocking the drainage space created by the battens. It is not critical to secure the cover sheet to the sheathing aggressively as the lath will be secured through all layers to the sheathing).

### Siding Installation:

**Wood or cement cladding (Diagram 1 and 2)**

Wood siding or cement cladding shall be installed in accordance with the manufacturer's recommendations.

**Note** – Engineered values are based on 8" wide HardiePlank™ lap siding (ESR-2290) with 8d nails used for systems without insulation and 16d nails used for systems with insulation. All nails were installed using predrilled holes in the siding. Nails were installed at the "overlap" and spaced at 16" on center horizontally.

**Stucco Siding (Diagram 3)**

Prior to installation of stucco, a self furred expanded metal lath (2.5 lbs/yd) shall be attached to the studs using 3" long x 0.120" shank diameter galvanized roofing nails (head diameter of 0.4") at 6" on center.

3-coat stucco system shall be installed in accordance with manufacturer's recommendations and the requirements of ASTM C-926.

**Note** – Engineered values are based on a system consisting of 3 parts sand to 1 part cement and a water to cement ratio of 0.3.

### Windows and Trim

- Secure additional **DuPont™ RainVent™ Batten** furring strips behind corner trim, and vertical window trim.
- Attach battens one inch away from window frame for air/water channel behind trim.
- Integrate an insect screen behind the horizontal window trim pieces by attaching a 6 inch wide strip of galvanized or fiberglass insect screen along both the top and bottom length of the window.
- Secure a length of a **DuPont™ RainVent™ Batten** over the insect screen one inch away from the window.
- Fold the insect screen up and over the batten and staple up.
- Trim windows and doors as specifi ed by manufacturer.

### Base of Wall

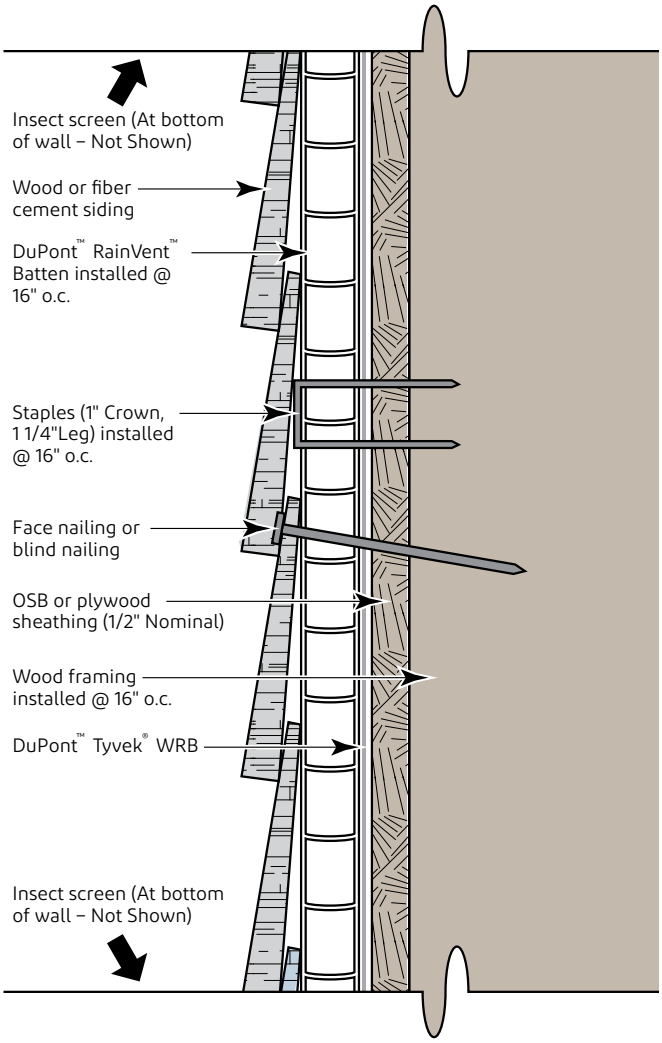
Integrate an insect screen, following manufacturer's instructions, to help prevent insects or wind-driven debris from entering the venting cavity.

- Snap a line 2-1/2 inches above the bottom edge of the siding and attach a 6 inch strip of galvanized or fiberglass insect screen.
- Secure a length of **DuPont™ RainVent™ Batten** to base of wall running horizontally, along the top of the line, over-laying the insect screen.
- Fold the insect screen up and over the entire base assembly and staple up.
- When applying lap siding, place a second **DuPont™ RainVent™ Batten** over the first.
- This second layer is a furring layer to give the siding proper slope for the bottom course.
- Siding should overlap the entire base assembly by 1/2".

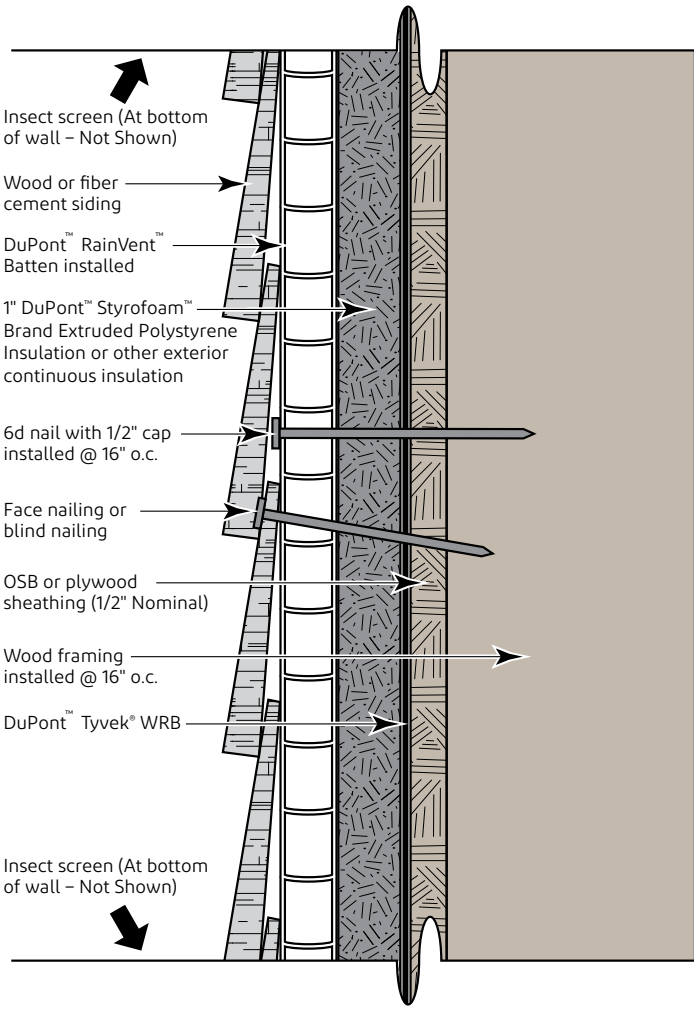
### Top of Wall

Integrate an insect screen, following manufacturer's instructions, to help prevent insects or wind-driven debris from entering the venting cavity.

**Diagram 1: DuPont™ RainVent™ Batten with 1/2" OSB or Plywood**



## Diagram 2: DuPont™ RainVent™ Batten to 1/2" OSB or Plywood with Foam Sheathing




## Diagram 3: DuPont™ RainVent™ Batten to 1/2" OSB or Plywood with Foam Sheathing and 3-Coat Stucco System