

# The Authoritative Guide

to the changing building codes for cladding drainage and ventilation

For a quick, two-step ABP product application guidance, [click here.](#)



## Quick Links

- [International Residential Code](#)
- [The Climate Zone Factor](#)
- [Instruction by Cladding Type & Manufacturer](#)
- [Rainscreen Presentation](#)
- [Mortairvent® Data Sheet \(English & Spanish\)](#)
- [Watairvent® Furring Strips Data Sheet \(English & Spanish\)](#)

# What You Need to Know

Starting January 1, 2024, new residential construction in many U.S. regions will be required to include drainage and ventilation mats per Section R703 of the 2021 International Residential Code.

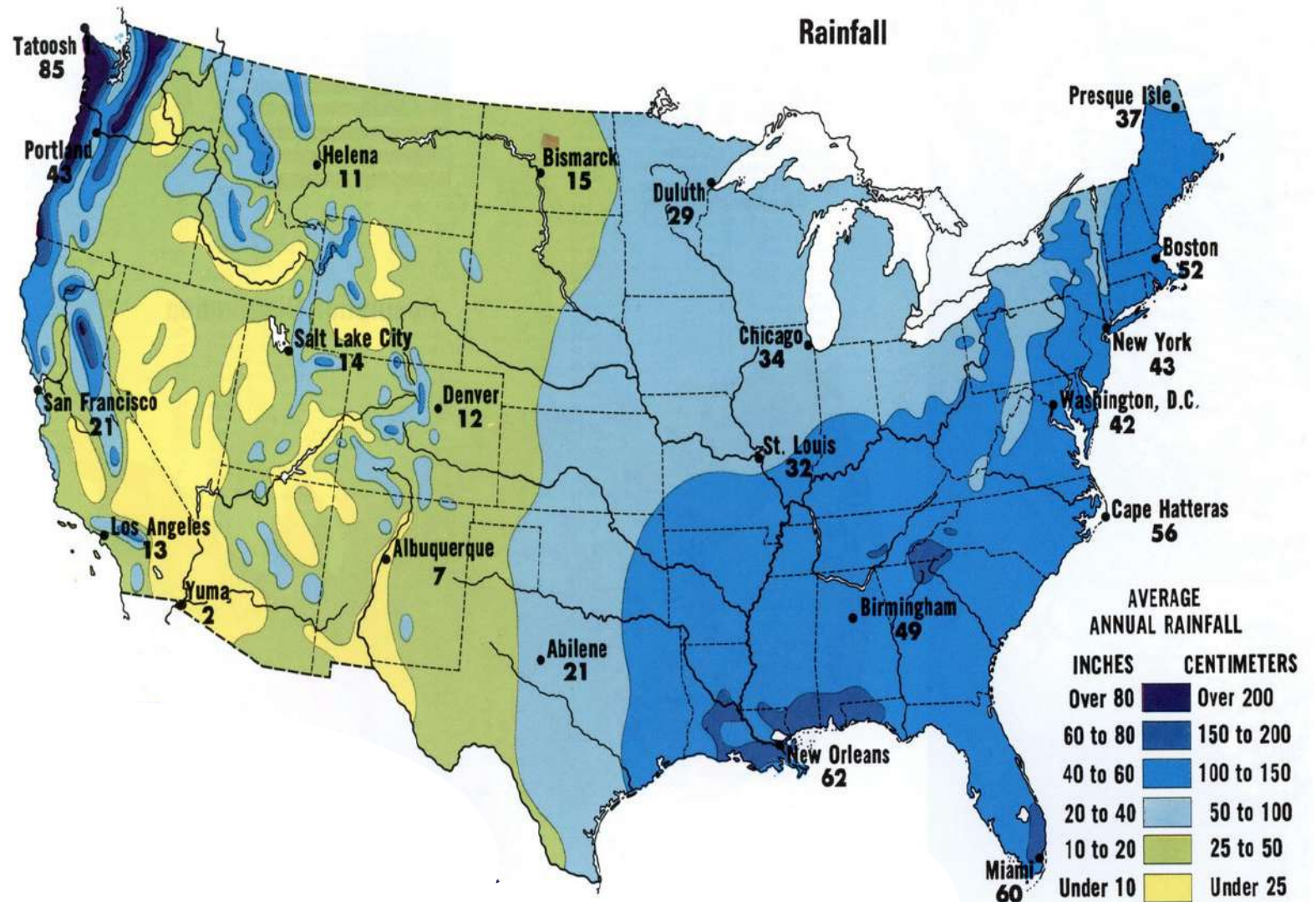
**Step 1:** Determine [your climate zone.](#)



# Climate Zones

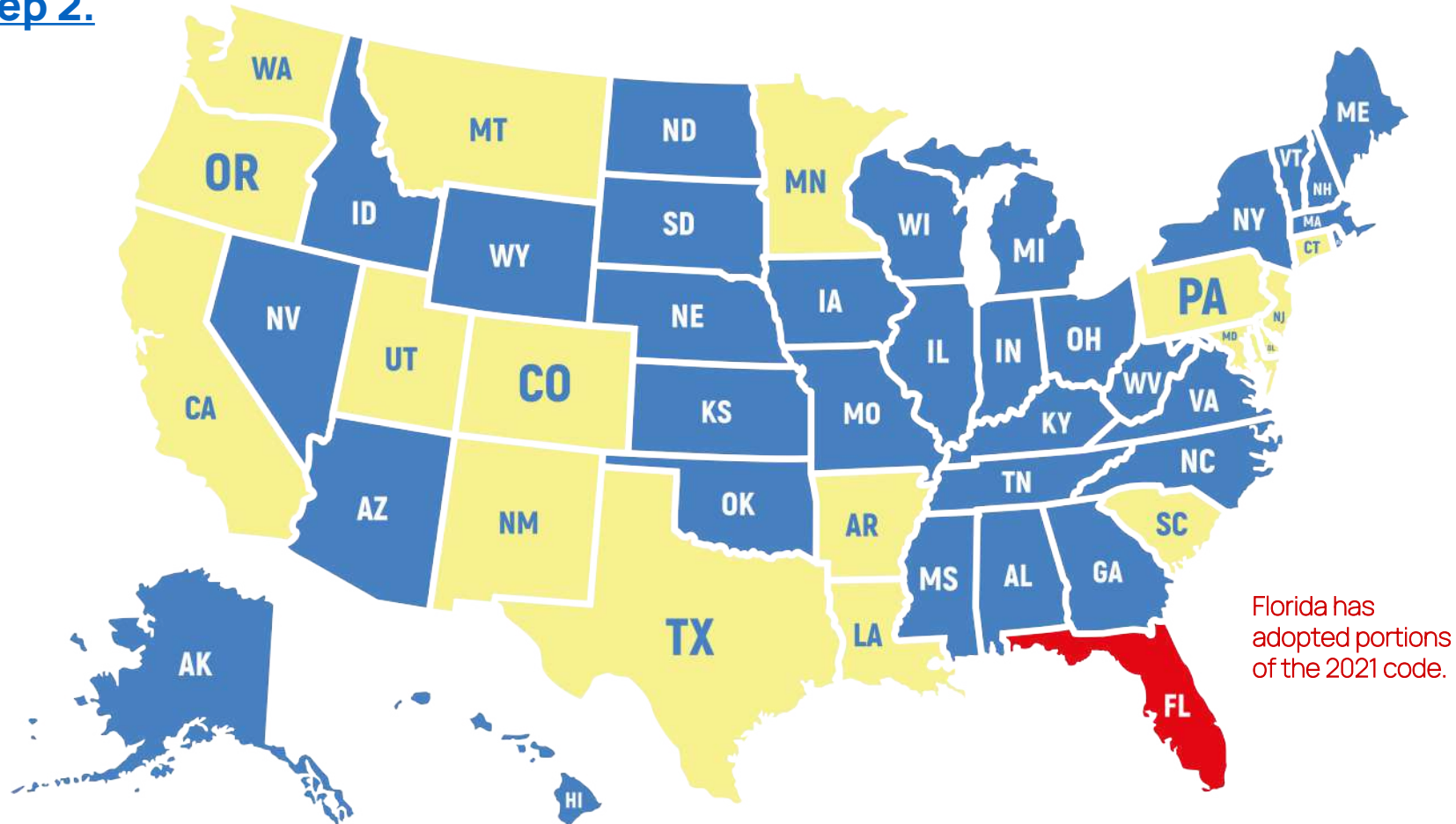
Drainage and Ventilation mats, (rainscreen mats) are recommended in areas exceeding 20" of rainfall. That is, any area on this map with even a hint of blue. Further, some states already require rainscreen mats—[click here for state requirements](#).

[Click here for step 2.](#)



# States that **already require** rainscreen drainage and ventilation.

[Click here for step 2.](#)



# Which Cladding Are You Building With?

**Step 2:** Once you've determined your climate zone — and whether the new codes apply to your project — just click your selected cladding type below to get links to each manufacturer's installation instructions.

[Vinyl & Composite](#)

[Fiber Cement](#)

[Full Size Brick](#)

[Stucco](#)

[Thin Brick/Stone](#)

[Wood](#)



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# VINYL COMPOSITE SIDING

Click on the logos for installation instructions.



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# VINYL COMPOSITE SIDING



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## FIBER CEMENT SIDING

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# STUCCO SIDING

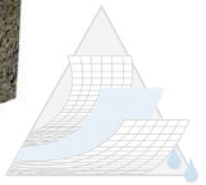
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# STUCCO SIDING



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## THIN BRICK/STONE SIDING

Click on the logos for installation instructions.

**Westlake**

**EVOLVE**  
STONE

  
**stone**<sup>TM</sup>  
DUTCH QUALITY  
A **BORAL**® Brand

 **Glen-Gery**

 **ProVia**<sup>®</sup>  
THE PROFESSIONAL WAY

**ELDORADO**  **STONE**

**NCMA**  
**MSV**

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## THIN BRICK/STONE SIDING



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## FULL SIZE BRICK

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# WOOD SIDING

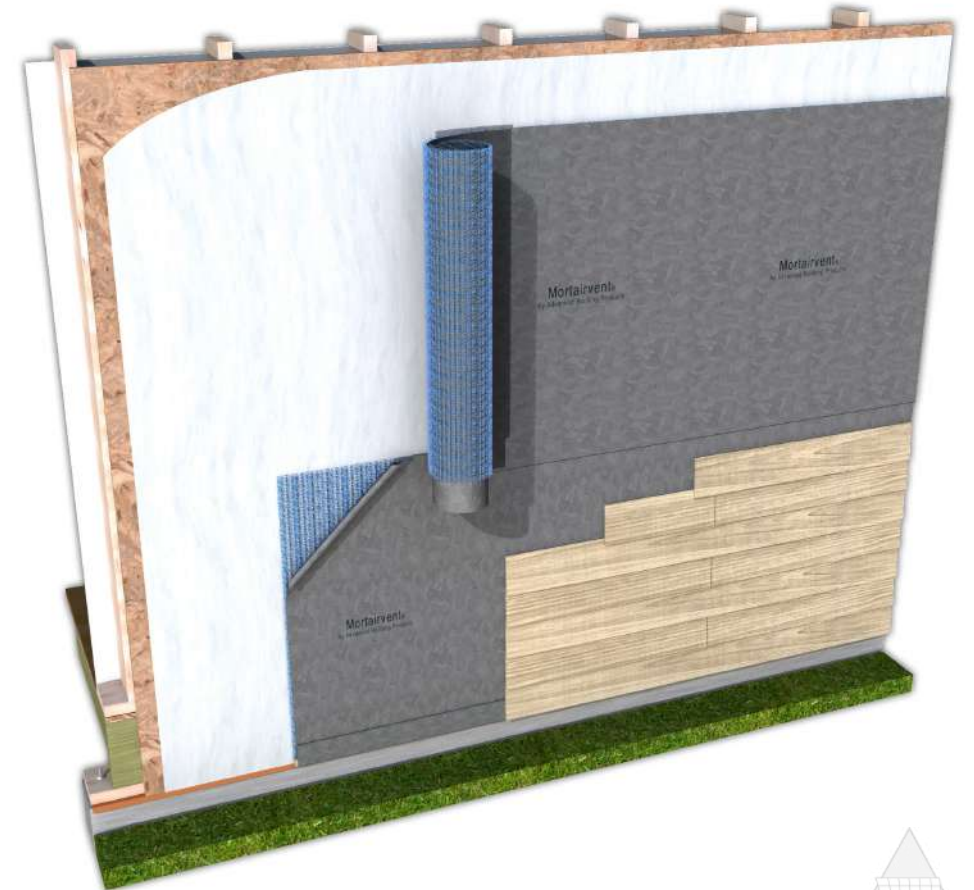
Click on the logos for installation instructions.



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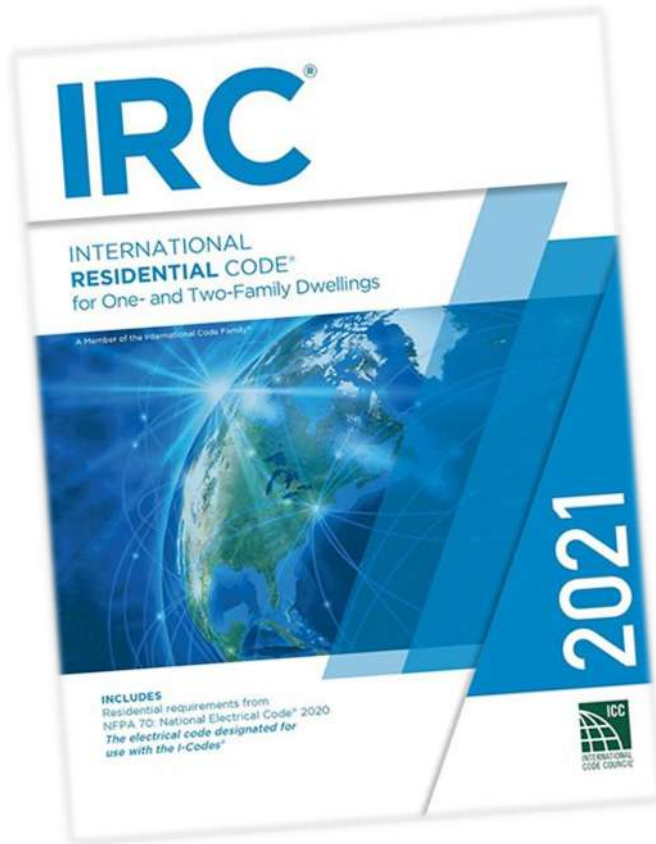
## WOOD SIDING



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# Other Resources

## SECTION R703 OF THE 2021 INTERNATIONAL RESIDENTIAL CODE



R703.7.3.2 Moist or marine climates. In the [Moist \(A\) or Marine \(C\)](#) climate zones indicated in Figure N1101.7, water-resistive barriers shall comply with one of the following:

1. In addition to complying with Section R703.7.3.1, a space or drainage material not less than  $\frac{3}{16}$  inch (5mm) in depth shall be added to the exterior side of the water-resistive barrier.
2. In addition to complying with Section R703.7.3.1, Item 2, drainage on the exterior of the water-resistive barrier shall have a drainage efficiency of not less than 90 percent, as measured in accordance with ASTM E2273 or [Annex A2 of ASTM E2925](#).



## ASTM E2925

Standard Specification for Manufactured Polymeric Drainage and Ventilation Materials Used to Provide a Rainscreen Function

- ASTM D3045 – Heat Aging
- ASTM D5199 – Nominal Thickness Test
- ASTM D5322 – Immersion Procedures
- ASTM D 6108 – Compression Testing
- ASTM D 6364 – Short-Term Compression Testing
- ASTM E84 – Surface Burning Test
- ASTM E2273 – Drainage Efficiency
- ASTM G 154 – UV Testing

