

# Continuous Insulation: Meet 2021 IECC the Easy Way

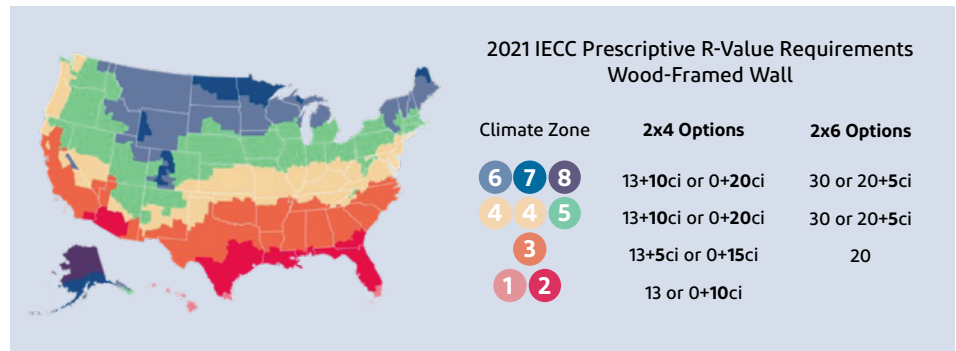
Using continuous insulation (CI), like DuPont<sup>™</sup> Styrofoam<sup>™</sup> Brand XPS Insulation, can help simplify thermal compliance paths while optimizing performance.

DuPont can ease your transition with outstanding service and support from in-field experts and our Building Knowledge Center technical team for unexpected conditions.

## Why 2021 IECC?

In addition to many states adopting newer codes, all ENERGY STAR certified homes permitted after January 1, 2025 will have to meet IECC 2021 thermal requirements<sup>1</sup>.

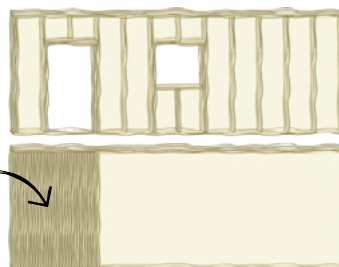
In IECC 2021, most climate zones will need continuous insulation to meet thermal requirements.



## Why Exterior CI?

Adding 1" of Styrofoam<sup>™</sup> Brand XPS to 2x4 with R-13 batt gives you **50% higher effective R-value** vs. 2x4 with only batt and better effective R-value vs. 2x6 with batt<sup>2</sup>.

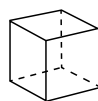
**25%**  
of a standard-framed wall is wood



## Additional Benefits of CI



Continuous insulation can help **mitigate condensation potential**, helping reduce potential callbacks from condensation issues.



Potential to **reduce HVAC equipment** cost by optimizing tonnage.



Higher effective R-value can mean **reduced energy usage and lower energy bills** for the homeowners.

## How CI can make code compliance easier

Did you know that the **U-Factor Area (UA) alternative method** is a code compliance pathway that allows more flexibility than the prescriptive method by permitting trade-offs between R-values (roof, wall, window, and foundation)?

DuPont can help with a custom UA analysis to design your next wall.

Using exterior CI can help achieve high UA values quickly compared to adding more insulation to the roof or stud cavity since the high surface area provides significant opportunity, and the effective R-value directly impacts UA.

## DuPont can help define and implement your 'easy path' to 2021 IECC thermal compliance



**Network of 200+ in-field experts** will help you execute design changes with installation training and jobsite support



**Nationwide channel and distribution partners** can help enable consistent, quality material supply across your markets.



**The Building Knowledge Center technical team** can support additional needs when unexpected situations arise.

Scan to connect with your **DuPont Rep** for a custom analysis and to help you with your journey.



## Did you know?



DuPont recently **reduced the embodied carbon of Styrofoam by 94%** through use of a lower global warming potential (GWP) blowing agent package.<sup>3</sup>



100% of the electricity used to make our products in our North American operations comes from **renewable energy sources**.<sup>4</sup>



The [Inflation Reduction Act Section 45L](#) offers **tax incentives** up to **\$5,000** per dwelling, which can help cover the cost of adding CI.



**For more information visit us at**  
**[building.dupont.com](https://building.dupont.com)**  
**or call 1-866-583-2583**

<sup>1</sup>California and Hawaii do not follow ENERGY STAR Single-Family New Homes National Program Version 3.2 and may have different insulation requirements.

<sup>2</sup>Calculations assume 16" o.c. framing and the following material R-values: Interior air film R-0.68; ½" Gypsum R-0.45; 2x4 R-3.71; 2x6 R-5.83; ½" OSB R-0.62; 1" Styrofoam™ XPS R-5.0; Exterior air film R-0.17.

<sup>3</sup>DuPont has 3rd party verified data to support this claim. The lower embodied carbon, along with reductions in other environmental impact categories helps enable our customers to qualify for additional LEED v4.1 credits.

<sup>4</sup>We have purchased Renewable Energy Credits to offset our electricity usage since 2016 for select brands. Starting in 2020, we offset our full in-house manufacturing electricity usage for brands in North America.

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Building and/or construction practices unrelated to insulation could greatly affect moisture and the potential for mold formation. No material supplier including DuPont can give assurance that mold will not develop in any specific system.

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