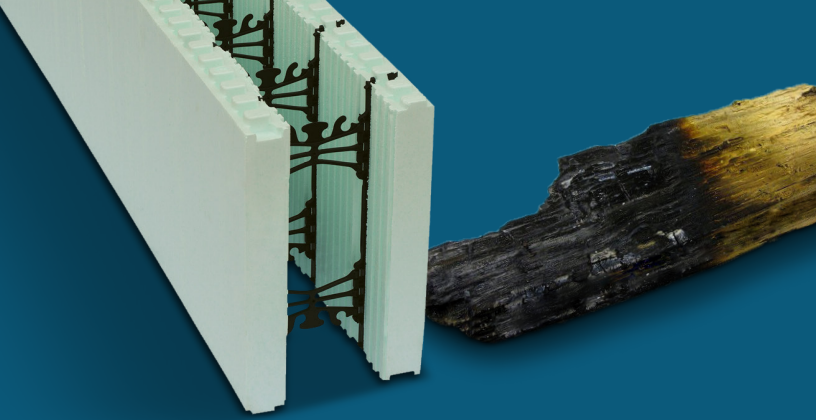


# Nudura ICF VS WOOD FRAMING



## THE QUESTION IS...WHY WOOD YOU?

Tariffs, environmental constraints, the pandemic, and a resurging construction market have left home builders cornered and searching for alternative building solutions. Nudura ICF Forms are high-tech **industry-leading insulated concrete forms** that have proven technologies to make building easier and faster. The Nudura line of ICFs offers innovation that is exclusive to Nudura, which allows builders the ability to build and design structures with greater efficiency.

Offering superior performance when it comes to thermal bridging, resulting in even temperatures throughout your home with reduced drafts and cold spots, ensuring you are comfortable no matter what the temperature is outside by providing Performance Values **saving building owners up to \*60% in annual energy costs**. ICF also acts as an effective sound barrier by dampening sound vibrations from unwanted outside noise, such as traffic, trains, and neighbors.

ICF walls built with reinforced concrete and fire-retardant Expanded Polystyrene Foam (EPS), providing a fire protection rating of up to 4 hours - **4 times that of a typical wood frame home**.

Nudura ICFs in addition provide greater impact resistance and can be engineered to withstand some of mother nature's worst, like winds up to 250 mph (402 kph) ensuring that the occupants of the home are **safe and secure**. Nudura's concrete embedded multi-purpose roof/ truss anchor system, provides greater resistance to wind uplift forces than most other conventional systems. Structural reinforced concrete in a Nudura building offers substantially better durability and typically **better results** in lower life cycle costs compared to wood structures.

\*Information provided by the ICFMA data report <https://icf-ma.org/resources/thermal-study/>.

**WANT TO SAVE UP TO 60% ON YOUR HOME UTILITY BILLS?**

**VS.**

**NUDURA ICF** **WOOD**

*Use Nudura ICF walls over wood framing*

**Nudura**

**NUDURA**  
**Energy Efficient**  
**Cost Effective**  
**Eco-Friendly**

**VS.**

**WOOD**  
**Inconsistent**  
**Elevated cost**  
**Wasteful**



## COMPARING NUDURA VS WOOD FRAMING

Comfort and Quiet	Nudura	Wood Frames
Calculated R-Value	R-23.59 (RSI 4.16, U-Value 0.24)	R-11 to R-19 (RSI 1.94 - 3.35, U-Value 0.52 - 0.30)
Tested R-Value of Wall*	R-24.1 (RSI 4.25, U-Value 0.24)	R-15.2 (RSI 2.68 and U-Value 0.37)
Reduced Heating & Cooling Cost	Yes	No
Thermal Mass	up to 75 lbs/sq.ft. (3.59kPa)	2 lbs/sq.ft. (0.10 kPa)
Typical Air Leakage	1.11 ACH	3.36 ACH
Sound Dampening	Effective	Minimum

\*ASTM C-1363 testing per ICFMA/UL(CLEB) Laboratories

Strength and Durability	Nudura	Wood Frames
Bearing Capacity Top of Wall	41800plf (60192kg/m)*	5404plf (8041kg/m)**
Wind Capacity	250mph (402kph)	90mph (145kph)
Fire Rating	4+ hours*	45 mins
Flying Debris Protection	Assured	Minimal
Defends Against Termite & Pest Intrusion	Yes	No
Interior Finish Nail Pop	No	Yes
Wood Split & Warp	No	Yes
Risk for Mould Growth & Rot	None	High Risk

\*As per Nudura's UL/ULC listings

\*\*As per American Wood Council DES230

*"Making the decision to build an ICF dream home became; an absolutely critical and life saving decision to us when we had a house fire. So much went into our house, and though quite devastating we still have our heads up, feel so blessed and our decision to build the absolute best possible way possible." - Jeff Strazzinski*

**FIRE  
RATING**

**Nudura** **WOOD**

**4+ hours** **45 minutes**



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Tremco CPG brings together Tremco Incorporated's Commercial Sealants & Waterproofing and Roofing & Building Maintenance operating divisions; Dryvit Systems, Inc.; Nudura Inc.; Willseal; Weatherproofing Technologies, Inc. and Weatherproofing Technologies Canada, Inc.

Nudura® is a registered trademark of Nudura Inc.  
Use of the ® symbol indicates registration with the US Patent & Trademark Office and the Canadian Intellectual Property Office.

07/2020

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