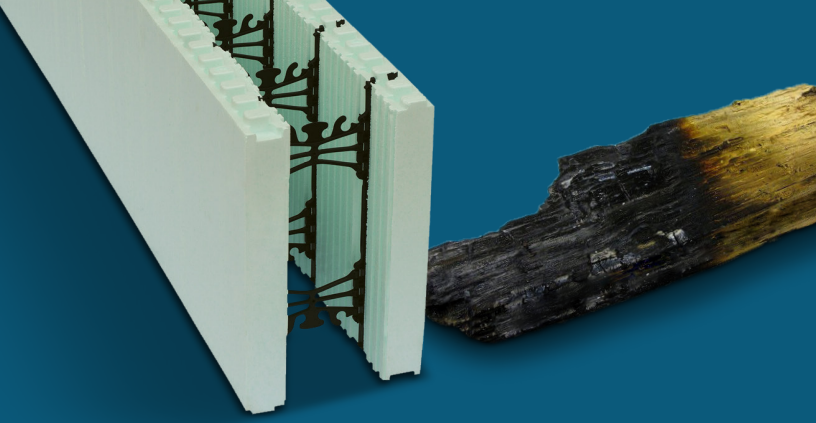


# Nudura ICF VS WOOD FRAMING



## 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.

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Use of the ® symbol indicates registration with the US Patent & Trademark Office and the Canadian Intellectual Property Office.

07/2020



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