ICF BASEMENT

Building has evolved and insulating basement walls with Nudura® provides greater insulation performance ratings.

An Innovative & Proven Alternative

Nudura Insulated Concrete Forms (ICFs) consist of two panels of Expanded Polystyrene (EPS) foam that are 2-5/8 in (67 mm) in thickness and connected together with our web system that is made of recycled material. These forms are stacked, reinforced and filled with concrete, which completes the building envelope of your commercial or residential structure in one building step. Nudura forms are available in a variety of shapes and sizes to accommodate all types of building requirements and designs.

Built with reinforced concrete, Nudura walls offer exceptional durability and impact resistance, capable of withstanding winds up to 250 mph (402 kph). Nudura ICFs are available in 90°, 45°, Radius, Brick Ledges, Taper Tops, Straight Forms and more.

Nudura vs Traditional Foundations

Nudura

- Combines 6 building features in one step
- Improved energy efficiency eliminates cold spots and thermal bridging
- Provide full height continuous EPS insulation on both above and below grade walls
- EPS insulation material prohibits mold, mildew
- and rot
- No additional vapor retarder or vapor barrier required
- Interior finish can be direct applied to the interior foam surface
- Walls are structurally reinforced to increase strength

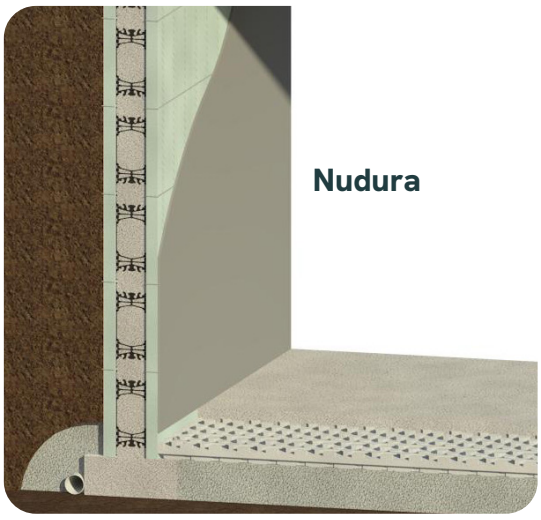
Traditional

- Requires multiple separate building steps to complete the wall assembly
- Thermal bridging
- Water intrusion may occur as a result of concrete shrinkage cracks and tie penetrations
- Additional exterior insulation may be required as per local building code
- Contact with moisture may compromise R-value
- Lack of wall reinforcement can result in concrete cracking

Nudura®

Feel the Nudura Difference

	Nudura Construction	Traditional Construction
Building Risks	▪ Nudura ICFs cover the foundation wall with EPS insulation eliminating the potential for condensation and prohibiting the growth of mold, mildew and rot.	▪ Condensation can develop in the wall cavity creating an ideal environment for mold and mildew. ▪ Mold is hard to detect as it develops behind the drywall or other finishes.
Water Intrusion	▪ Nudura ICFs are structurally reinforced, providing the structural solution helps prevent cracking in the concrete that could lead to water penetration.	▪ Form ties required for traditional construction can allow water intrusion into the wall cavity. ▪ Horizontal rebar is not required in a conventional concrete foundation and can lead to cracks in the wall, opening a pathway for water intrusion and requiring a costly repair.
Insulation	▪ EPS insulation cannot be compromised by moisture absorption, therefore no reduction of insulation value occurs.	▪ Unprotected fiberglass batt insulation can absorb the water and severely compromise the insulation value. ▪ Moisture problems often remain hidden in the wall cavity and create health hazards, high energy bills and renovation costs to fix the damage.
Atmosphere	▪ Nudura offers superior performance when it comes to thermal bridging, resulting in even temperatures throughout your home with reduced drafts and cold spots, which optimizes energy performance. ▪ EPS insulation will not propagate mold growth.	▪ Wood wall framing and fiberglass batt insulation do not address thermal bridging, unwanted air infiltration and energy loss at the sill plate. ▪ Thermal bridging and moisture in the wall cavity lead to cold spots and temperature variation. Thermal bridging at the slab will create a cold floor.
Restrictions	▪ Nudura ICFs are easy to cut, can form curved walls and be built on bedrock, footings and slab-on-grade. ▪ Nudura ICFs are lightweight and easy to handle. ▪ The forms provide the structure, insulation, fastening strips, vapor, air and sound barrier into one step.	▪ Traditional concrete foundations have more steps, require more trades and man power and take more time to set up. ▪ Forms and equipment are often required on another site making job schedules dependent on other jobs, rather than homeowner and contractor schedules. ▪ Forms are only available in standard sizes, limiting design possibilities.



Nudura

Traditional

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Nudura® TREMCO Construction Products Group