

Nudura Online Basic Installation Training – Module One



Objectives:

To deliver an overview of Nudura ICF products, benefits of building with ICF's, and a best practice guide for ICF installation.

Agenda:

Module follows the Nudura Installation Manual and Product Guide.

Disclaimer:

The information presented in this course gives the participant the necessary guidance and basic knowledge of proper installation techniques for using the various products composing the Nudura Integrated Building Technology and associated accessories (the “Nudura Products”).

This course DOES NOT train an individual how to be a contractor. Nudura Inc. and Nudura Systems, Inc. do not have any control over the installation or workmanship used in the assembly or installation of the Nudura Products, whether by recognized Nudura trained installers or by unauthorized installers

Safety First

Personal Protective Equipment (PPE):

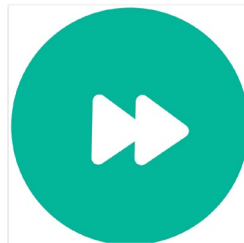
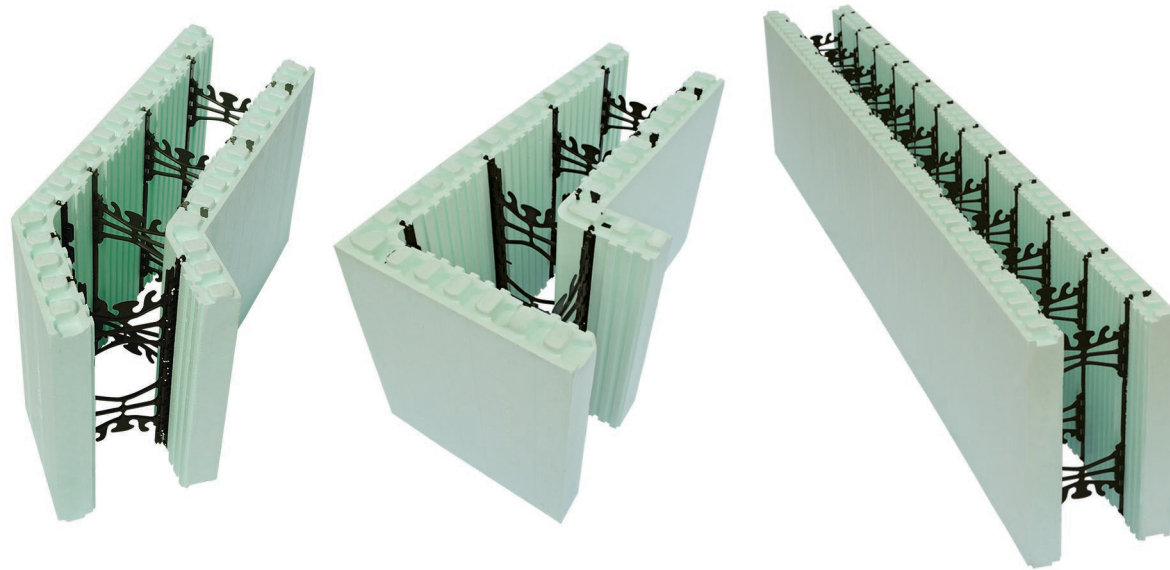
- Hard hats
- Safety boots
- Safety glasses
- Protective gloves

Where erecting scaffolding or alignment system, all local safety codes and regulations must be met.

Keeping a clean and efficient job site results in less chance of injury.

Take proper precautions to protect workers from protruding rebar.

Introduction Video



Applications



- Below grade foundations
- Above grade walls
- Multi- storey buildings
- Crawl space walls
- Retaining walls
- Grade beams
- Pools

Applications

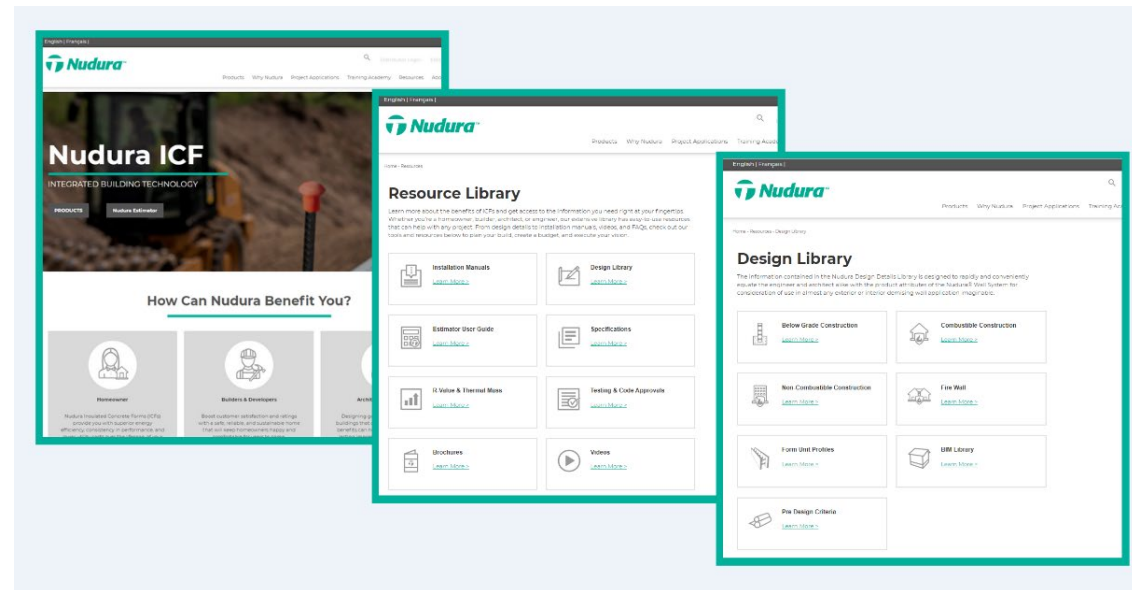


- Retail
- Apartments and Condos
- Hospitality
- Institutional
- Building of worship
- Industrial
- Agricultural

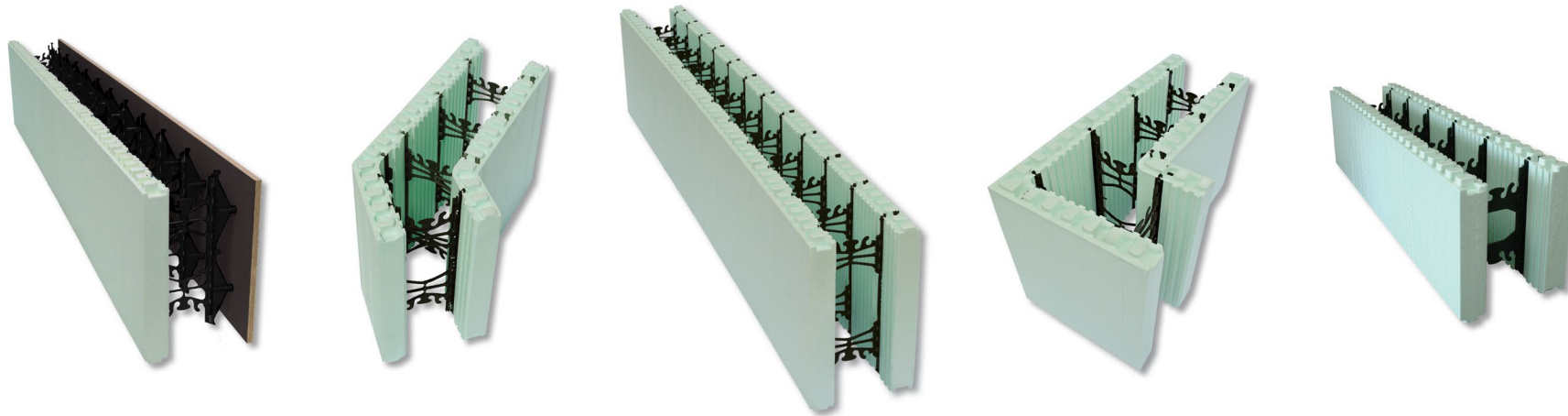
Nudura Integrated Building Technology combines a comprehensive array of building products.

Technical Support is available through our local distributors.

Nudura's website is a valuable resource. www.nudura.com



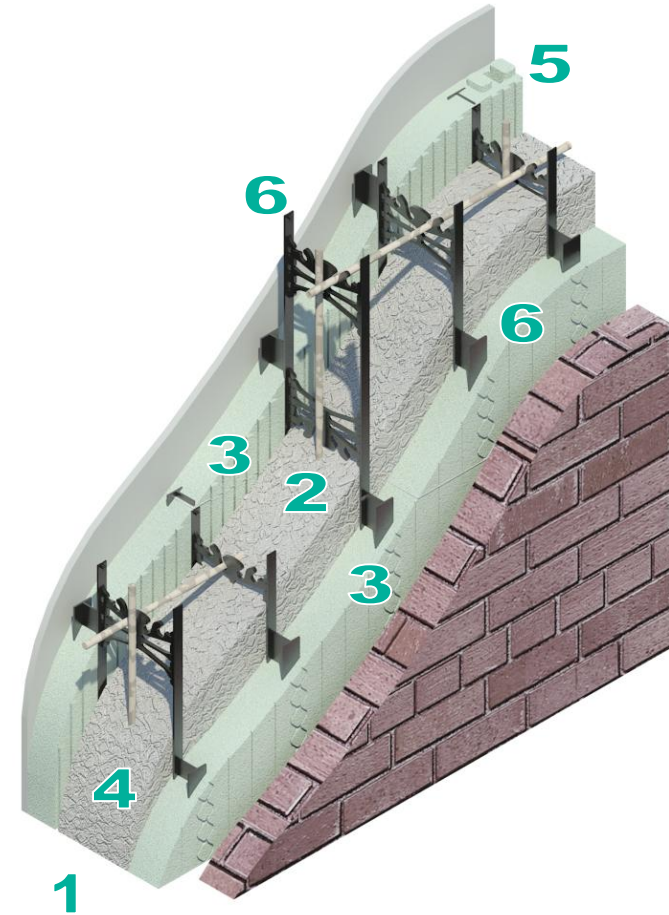
Introduction



Introduction

Nudura ICF combines SIX building envelop elements within ONE product:

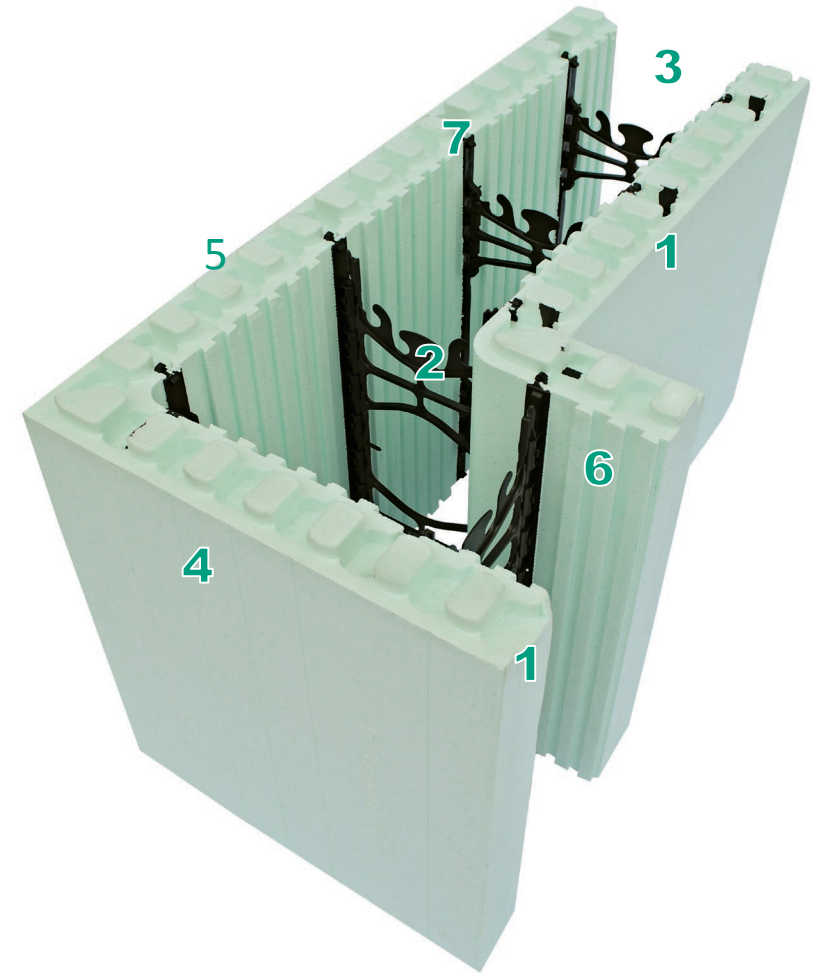
- 1) Concrete forming system
- 2) Structurally reinforced monolithic concrete
- 3) Continuous exterior/interior insulation
- 4) Continuous air barrier (Concrete)
- 5) Continuous vapor barrier (EPS)
- 6) Exterior and interior fastening strips



Introduction

The Form

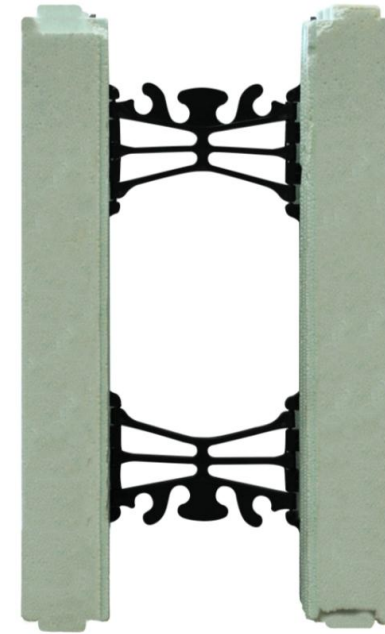
- 1) EPS Insulation Panels 2 5/8" (67mm) each side
- 2) Webs at 8" (203mm) o/c with notches for rebar
- 3) Concrete core width
- 4) Cut lines to maintain interlock per course
- 5) Reversible Interlock top and bottom
- 6) Dovetail interior face for better concrete adhesion
- 7) Fastening Strips, 5/8" (16mm) below surface of EPS



Introduction

Expanded Polystyrene (EPS) Panels

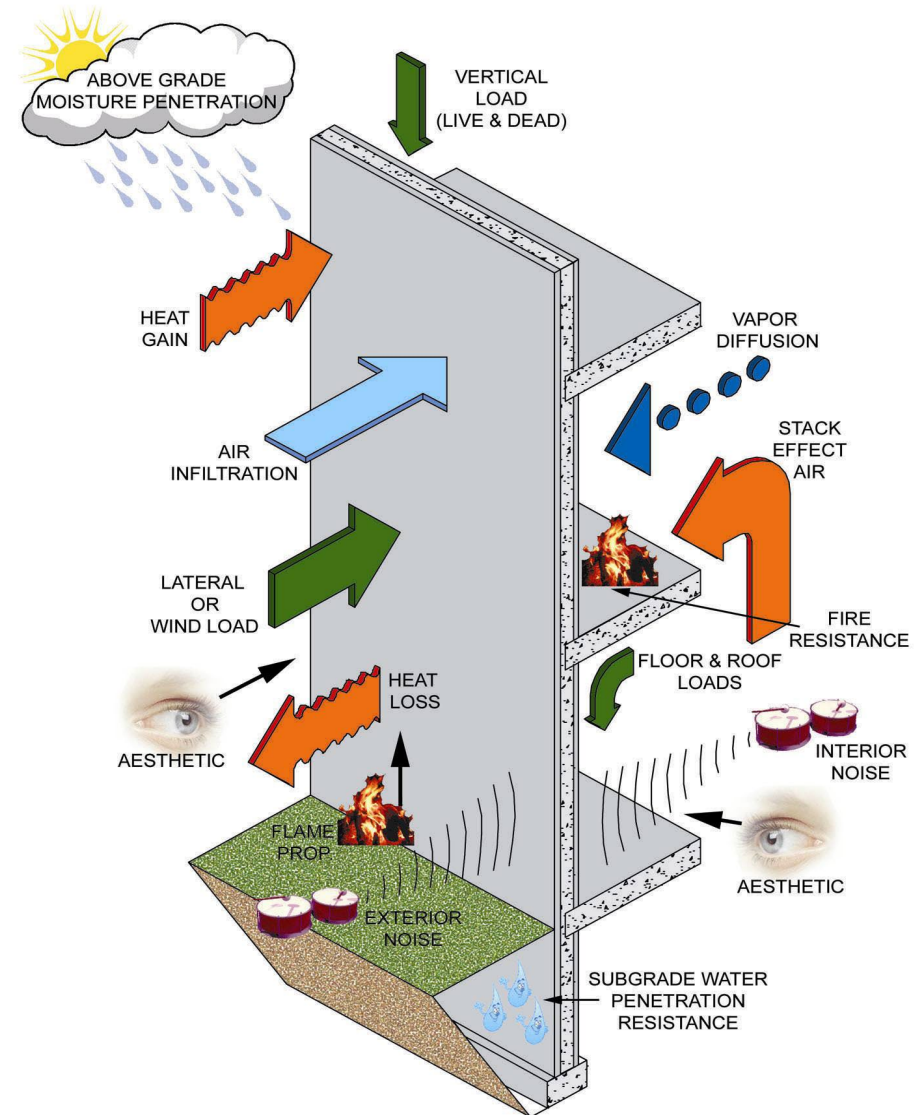
- Type II, closed cell foam
- High R-Value per inch (R4)
- Stable, durable for a long life
- No off – gassing
- Moisture resistant, non-absorbent
- Inert - resistant to mold and rot
- Contains a flame retardant
- Recyclable



Introduction

ICF Advantages

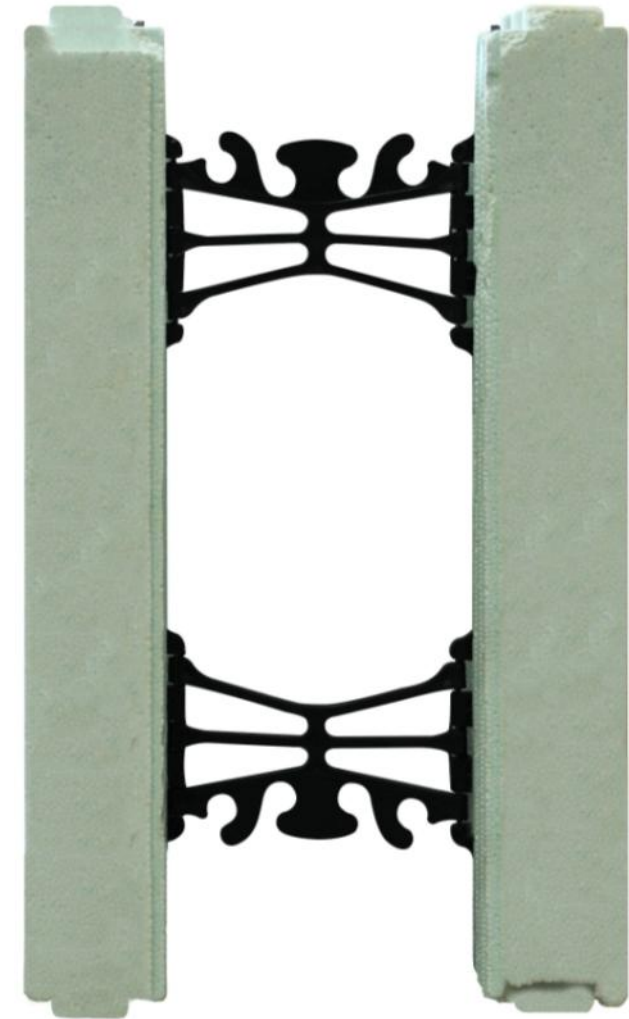
- Structural Integrity
- Thermal Resistance – R24
- Fire Resistance – 4HR
- Sound Resistance – STC 50
- Minimal Air Changes per Hour
- Health & Indoor Air Quality
- Sustainability
- Construction Efficiency
- Innovative Design



Introduction

The NUDURA Form:

- Consists of two 2 5/8" (67mm) thick expanded polystyrene (EPS) panels
- EPS panels are connected with a hinged web
- Web & Fastening strip are manufactured from recycled plastics
- Fastening strips are 1 1/2" (38mm) wide and are located 8" (203mm) on center



Introduction

Hinge Pin Web

Available in 4" (100mm), 6" (152mm), 8" (203mm), 10" (254mm) and 12" (305mm) widths to fit the concrete core sizes available from Nudura.



Introduction

Unassembled Form Insert Web

Available in 4" (100mm), 6" (152mm), 8" (203mm), 10" (254mm) and 12" (305mm) widths.



Introduction

NUDURA Forms are manufactured with exclusive industry leading patented technologies.

DURAMAX™



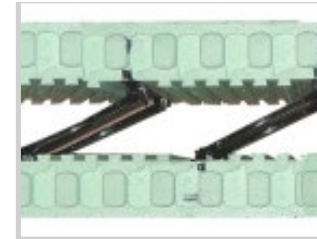
4-Way Reversible System



DURALOK™



DURAFOLD™



Introduction

DURAMAX Technology™

- Largest ICF on the market - 96" x 18" (2438mm x 457mm)
- Place 12ft² (1.115m²) of wall area in one building step
- 60% fewer joints in the wall
- Reduced amount of horizontal reinforcement



Introduction

4-WAY REVERSIBLE System

- Patented foam interlock allows the form to be 4-way reversible
- Eliminates left and right corners
- Helps to speed up the building process
- Reduces product waste on-site
- Large interlock reduces block damage



Introduction

DURALOK Technology™

Triple Tooth Interlock securely locks forms in place resulting in reduced labor costs during installation.

Full Height Fastening Strip ensures wall heights are accurate.

Eliminates:

- Tie wiring or gluing forms
- Uplift separation
- Floating of forms
- Compression of forms during concrete placement



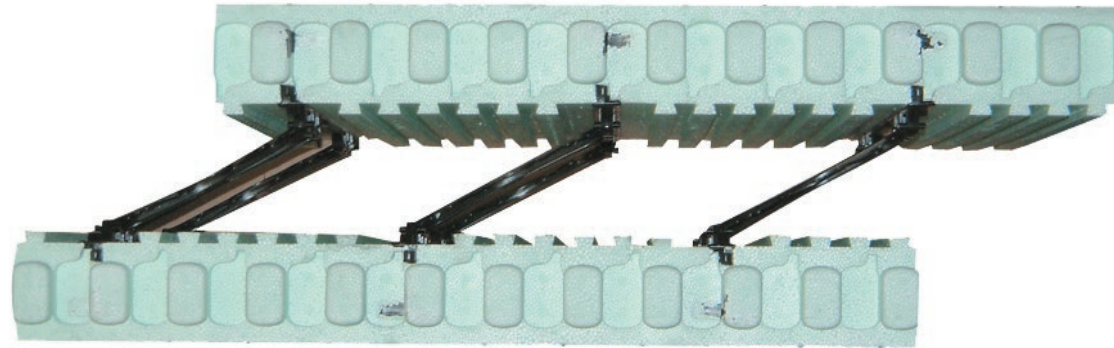
Introduction

DURAFOLD Technology™

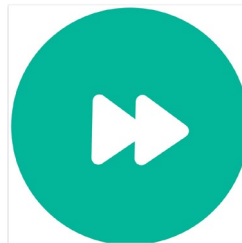
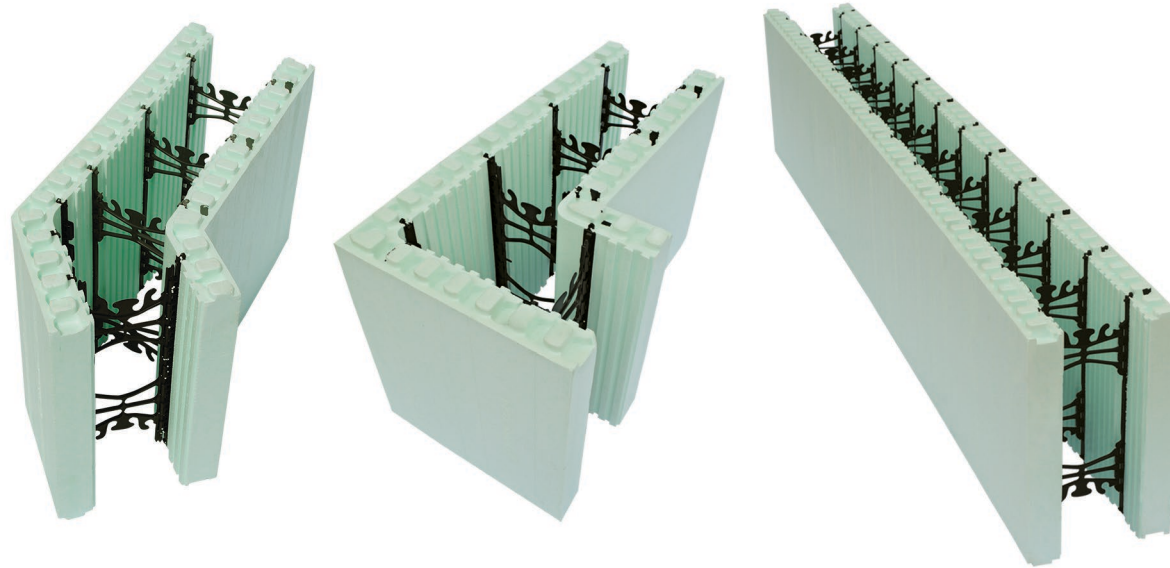
- Patented Hinged Web
- Forms Fold Flat resulting in 40% more product on a truck
- 3 Standard Forms per bundle shrinkwrapped together to prevent shifting while in transit

Reduces:

- Shipping Costs
- Block Damage
- Jobsite Labour
- Storage space on site



Nudura Innovation Video



Product Series

nudura^{icf}
—series—

Leader in Insulated Concrete Form Innovation and Technology

one¹
—series—

Industry's only multi-link form system

plus⁺
—series—

Products to Build your own R-Value

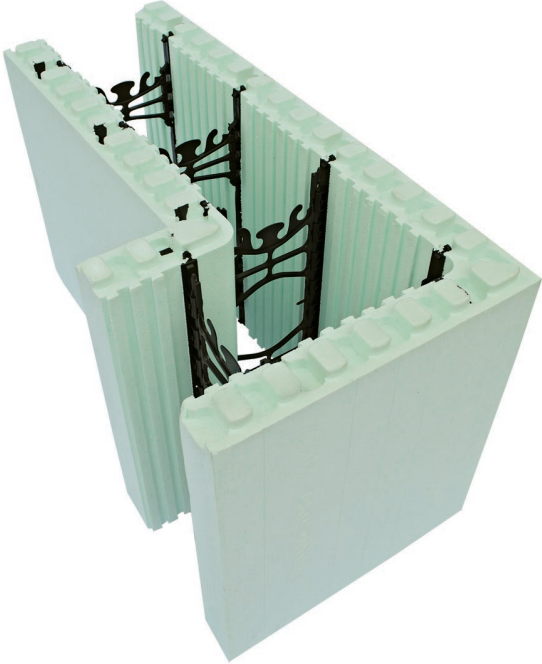
integrated[↔]
—series—

Products to Complete the Building Envelope

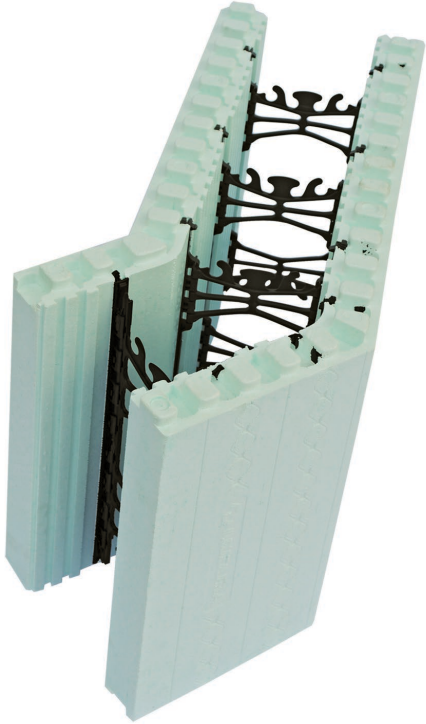
Standard Form Unit



90° Form Unit

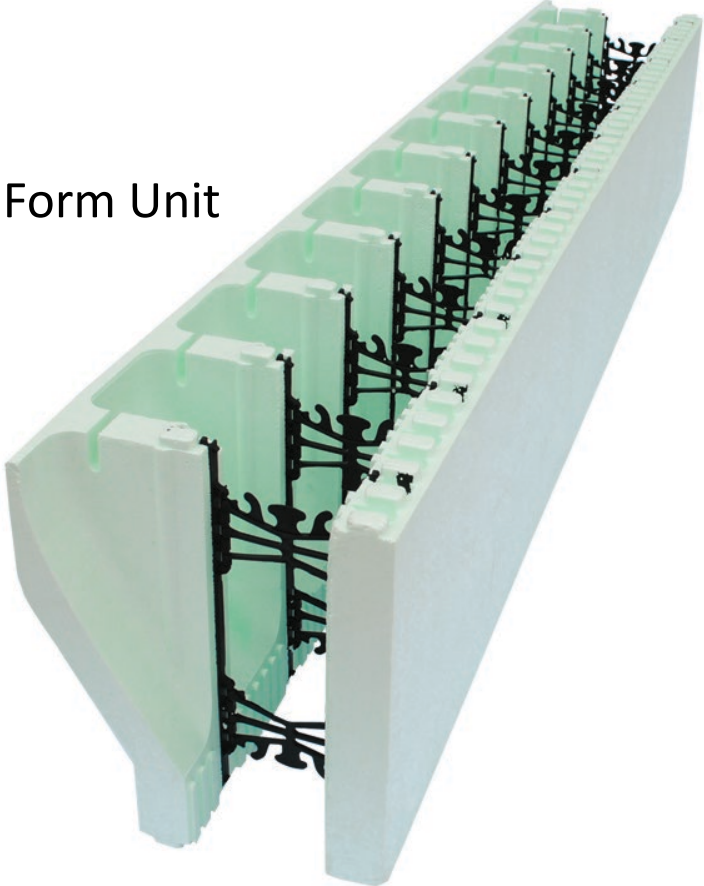


45° Form Unit



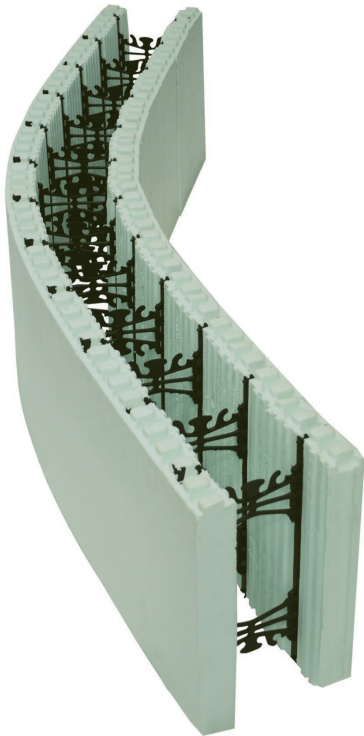


Taper Top Form Unit

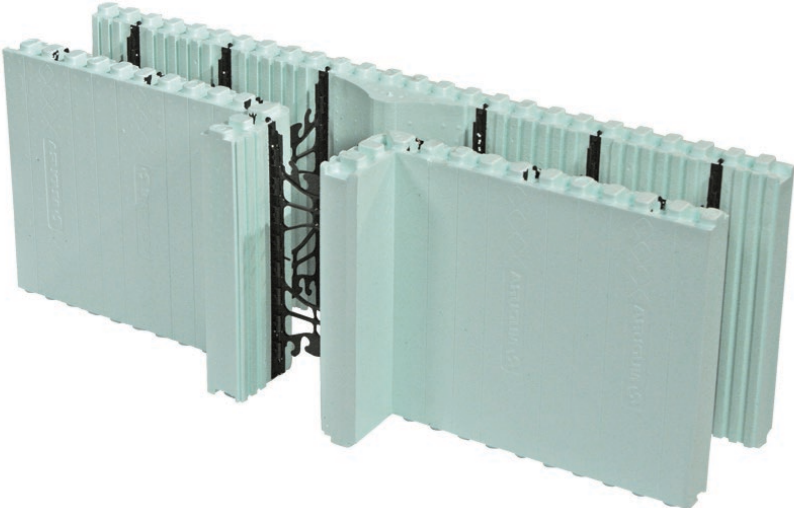


Brick Ledge Form Unit

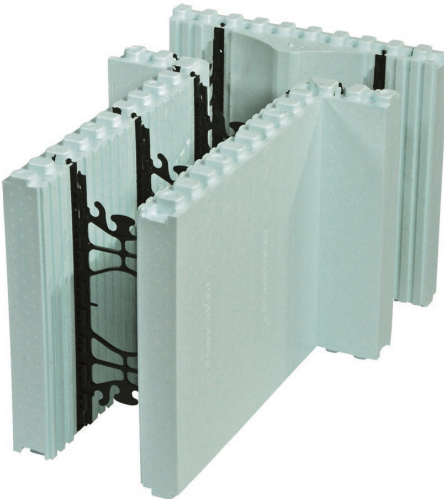
Radius Form Unit



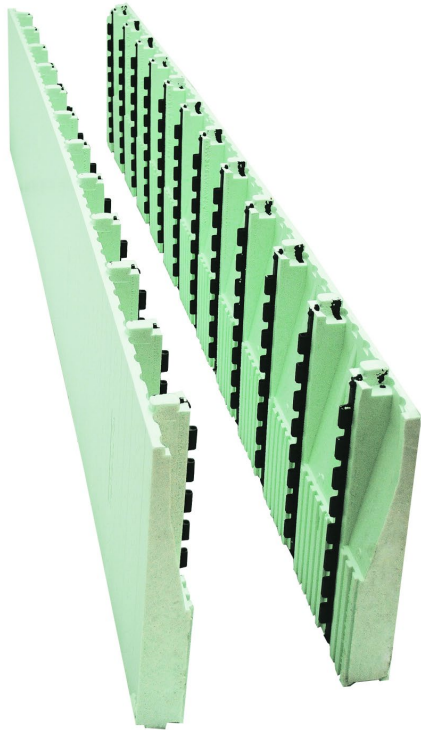
Short T-Form Unit



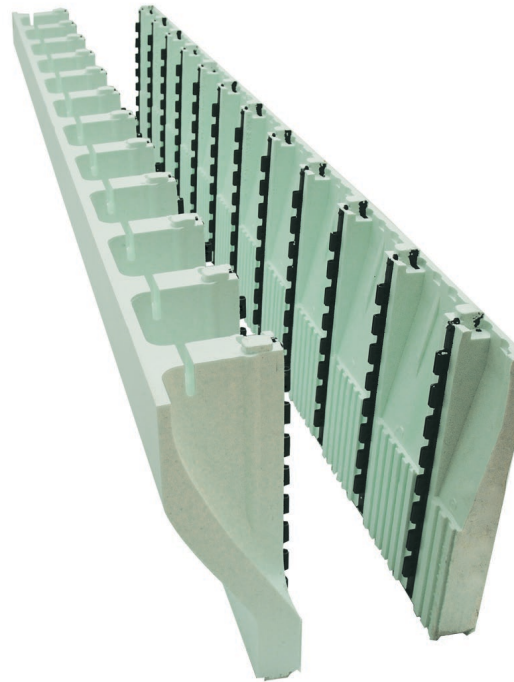
Long T-Form Unit



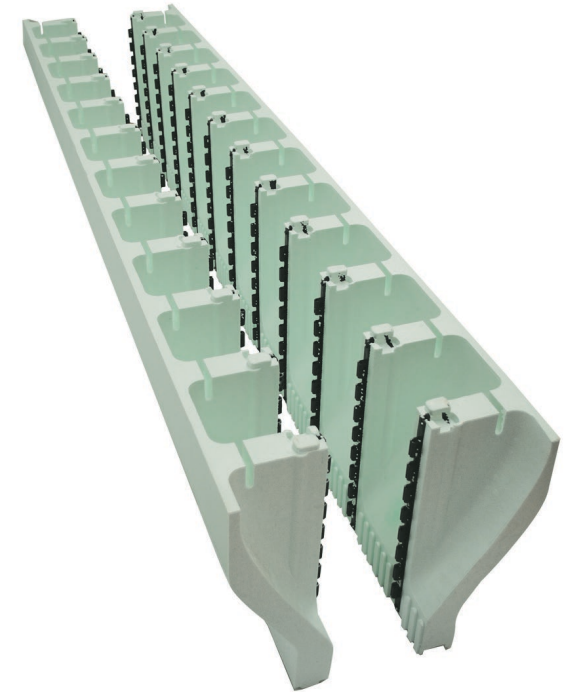
Double Sided Taper Top



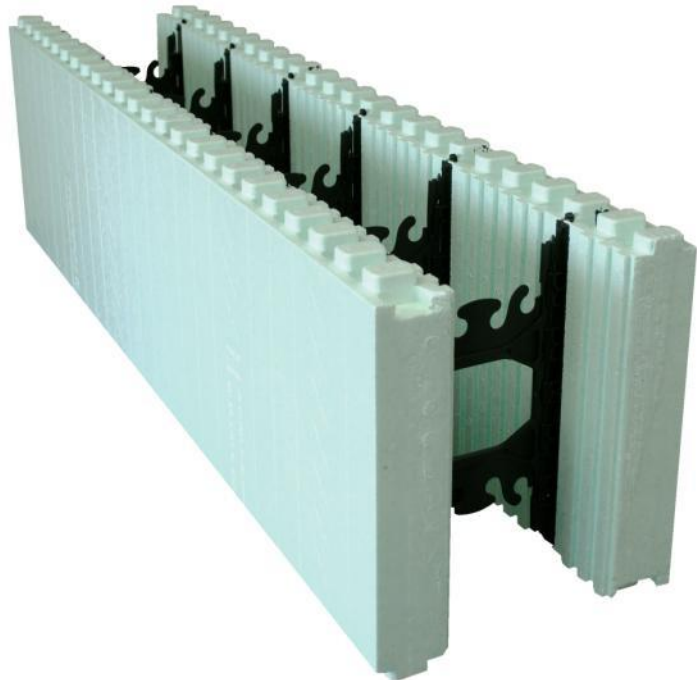
Brick Ledge & Taper Top Unassembled



Double Sided Brick Ledge



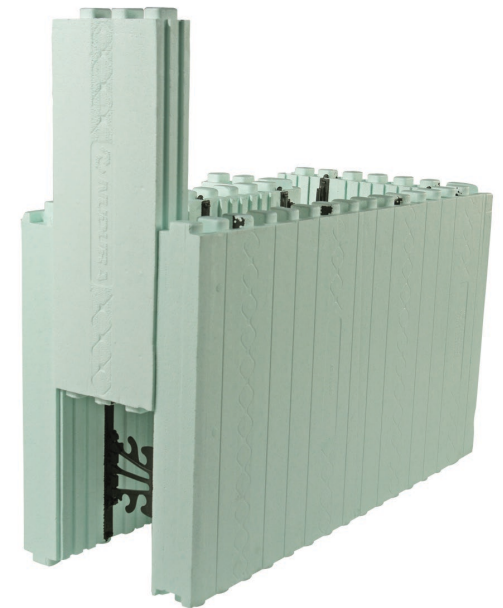
Optimizer Form



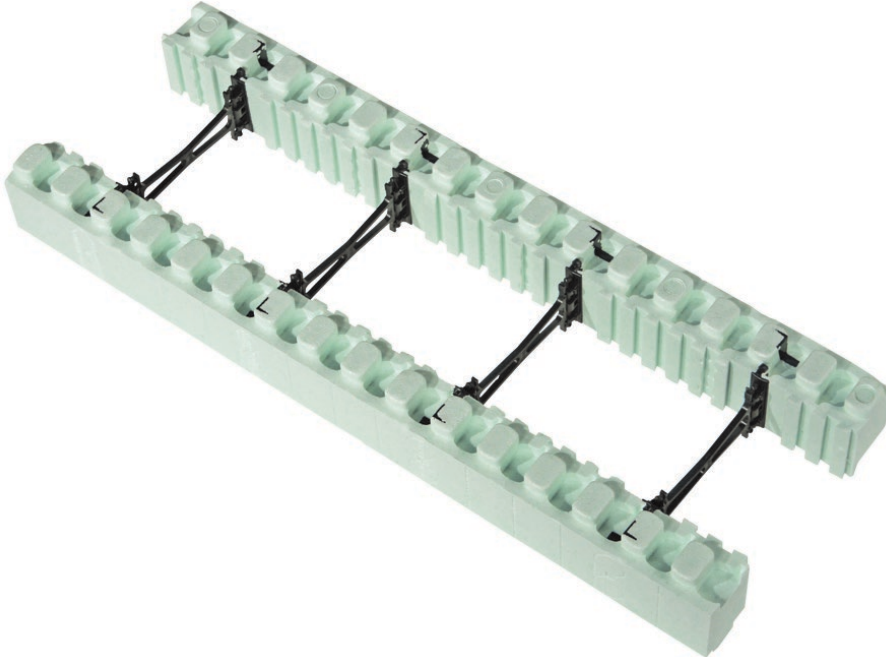
Brick Ledge Extension



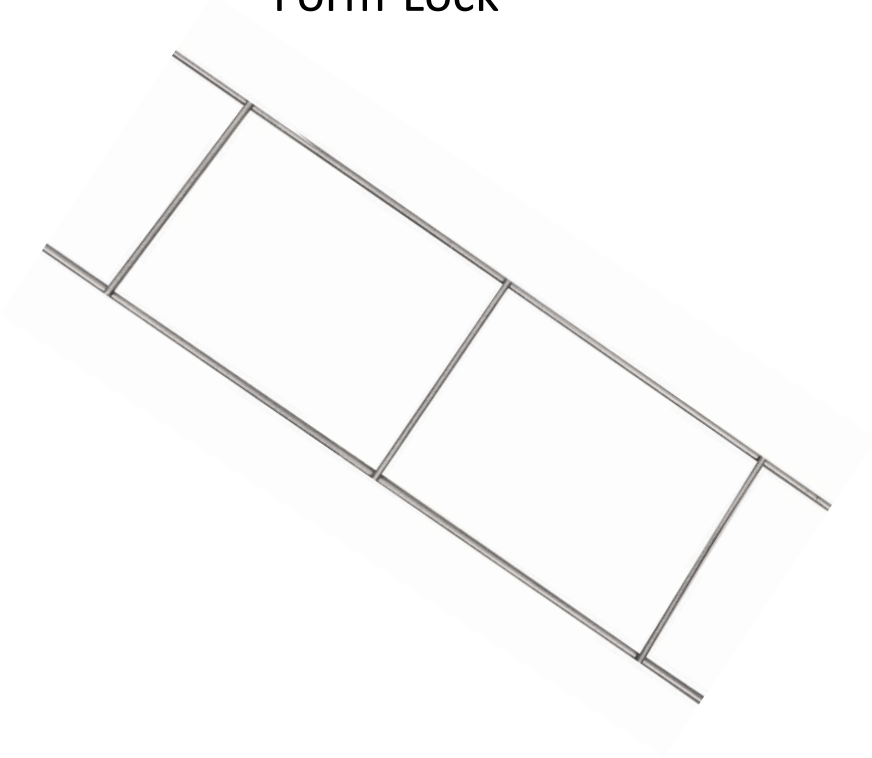
End Cap

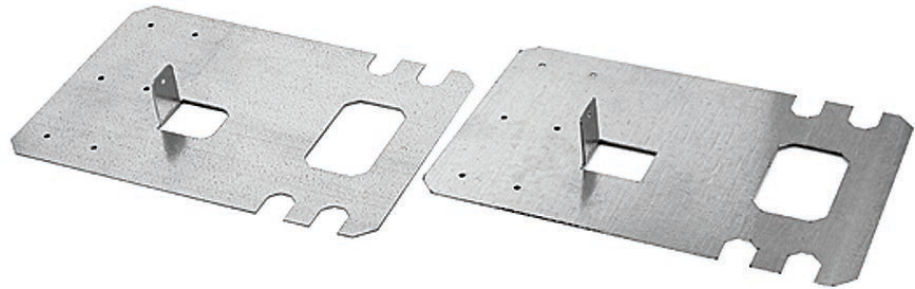


Height Adjuster



Form-Lock





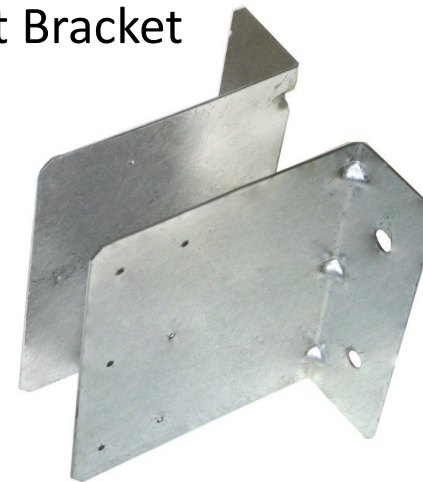
ICF Hanger Insert Plate

45° ICF Connector Insert Hanger Plate



Stamped Bearing Bracket

Retrofit Bracket



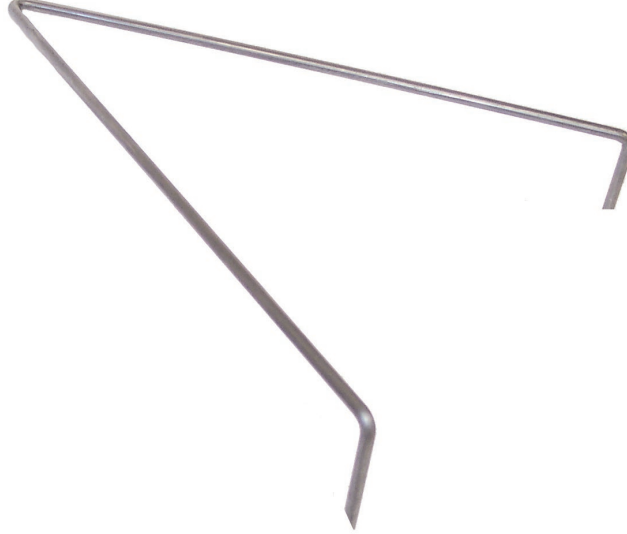
Form Transition Bracket



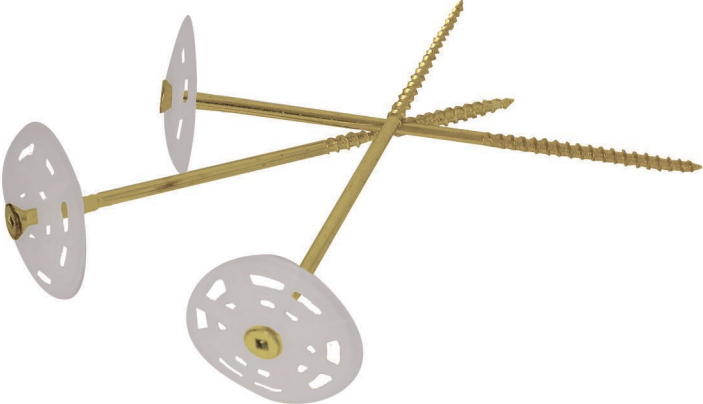
Vertical Joint Clip



V-Clip



Variety of Screws



Nudura Folding Saw



Nudura Bit Kit



Nudura Easy Buck



Nudura Masonry Ties



Protection Tape and Fiber Tape



Parging Mix & Fiber Mesh



Waterproofing Membrane



Membrane Primer



Low Expansion Foam & Cleaner



Expansion Foam Gun

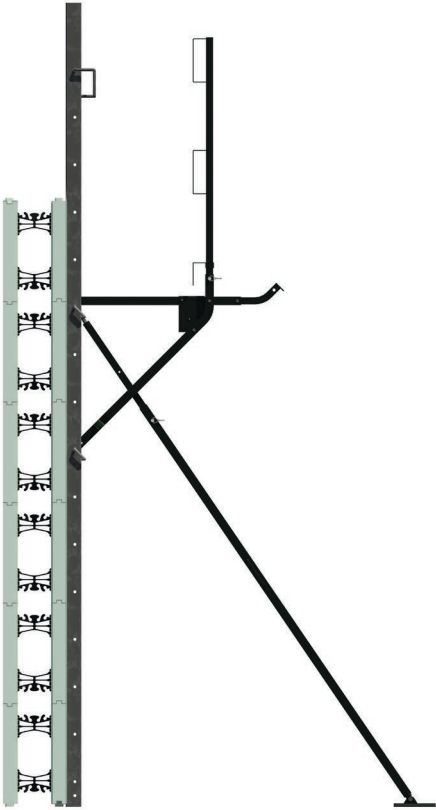


nudura^{icf}
series

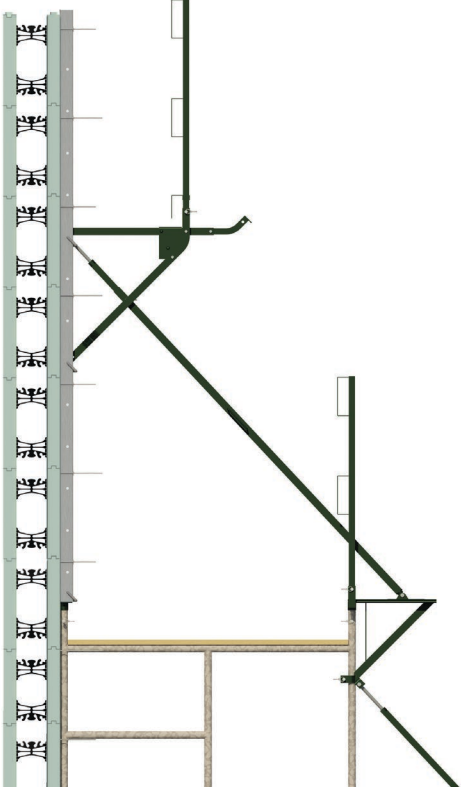
Rebar Bender/Cutter



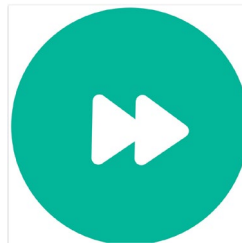
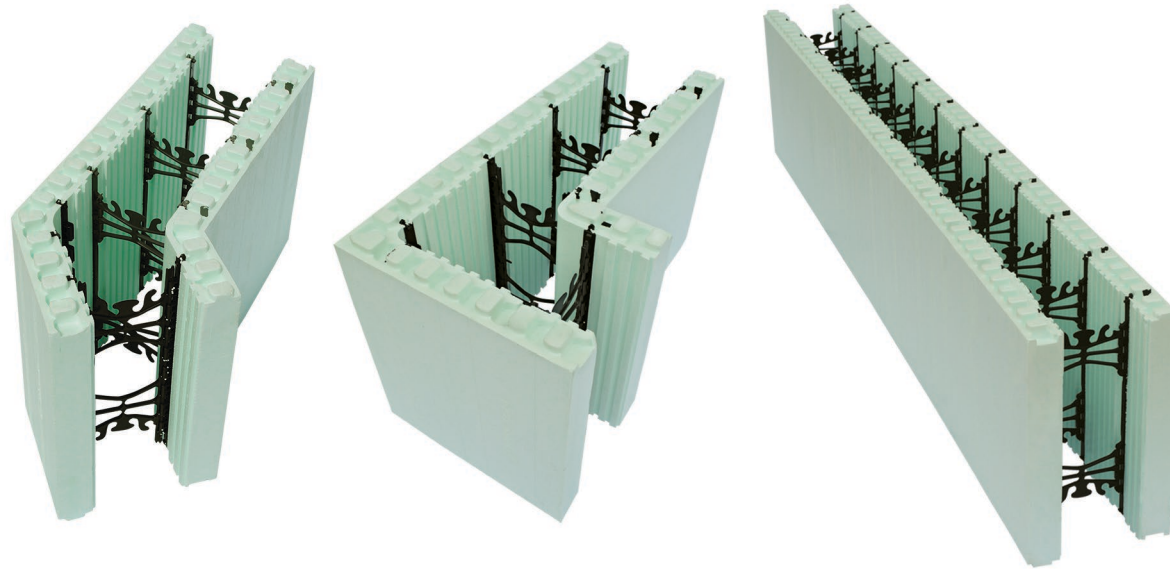
Nudura Alignment System



Nudura Tall Wall Adapter Kit



Nudura Product Video





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