

INSULATED CONCRETE FORM SWIMMING POOLS



NUDURA Insulated Concrete Forms can be used for much more than just building an energy efficient dream home! In-ground swimming pools are a common and growing application where using ICF's can improve the finished product. ICF's provide superior insulation and strength, thereby reducing energy costs and increasing longevity. An ICF pool can be custom made to suit any design.

Using NUDURA ICF's for swimming pools can add to greater long-term costs savings. Swimming pools can lose much of their temperature through the sides and bottom, building with insulated forms will greatly reduce this heat loss.

NUDURA ICF SWIMMING POOLS OFFER NUMEROUS ADVANTAGES:

- Speed of construction – faster than other poured-in-place methods
- Ease of handling – lightweight and easy to assemble
- No heavy construction equipment needed for delivery, lifting, cutting or installing
- Custom designs
- Suitable for all finish options
- Energy savings
- Superior strength and longevity

ICF's reduce labour and provide versatility with design. For builders, the unique design capabilities and fast assembly result in a beautiful swimming pool with the benefits of NUDURA ICF's!



WATCH OUR TIMELAPSE!

Visit our NUDURA YouTube Channel to watch our pool timelapse video!





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Installation Instructions

Step 1:

Prepare the site. Mark the location and prepare for excavation. Remember to check for underground services before digging.

Step 2:

Form and pour footings or slab as required by local code requirements. Keeping footings within +/- 1/4" (6mm) for easier stacking and leveling of forms. Installing NUDURA Thermofoam Floor Technology insulation below the slab will help to increase efficiency.

Step 3:

Mark corner locations and building lines on footing and begin with first course placement. Place horizontal reinforcement as necessary. If required, prepare bottom of first course for stirrups to structurally tie the wall to the pool slab. This may require cutting foam pockets in the bottom of the form to allow the slab and wall to be monolithic.

Step 4:

Continue with second course placement. After second course of NUDURA forms are installed, the wall should be levelled and spray foamed to the footing. Continue stacking forms until desired height is reached, brace walls as required. Bracing will typically be installed to the outside of the pool to allow for unobstructed access and pouring of the floor. For more in depth information on consecutive course placement refer section 6.3 of NUDURA's Installation Manual.

Step 5:

Install necessary pool features such as skimmer baskets, jets and drain locations. Additional form support may be required around areas of surface penetration (refer to section 6.7 of NUDURA's installation manual). Install required sleeves and conduit for electrical and/or plumbing. A top edge coping and liner attachment track (if required) should be installed during this step.

Step 6:

Prefabricated pool stairs are easily installed in a NUDURA pool. Cut and remove the NUDURA forms at the desired stair location to allow the stairs to be cast in place when pouring the concrete. Level and fasten the stairs as per the manufacturers specifications.

Step 7:

Perform a pre-pour inspection to ensure that all items have been installed properly (refer to section 6.10 of NUDURA's installation manual). When ready, place concrete in the wall following the practices recommended in the NUDURA Installation manual.

Step 8:

Some pool installers may choose to pour the floor slab at the same time as pouring the walls. This method can save in concrete pumping time but requires more pre-planning.

Step 9:

Before a liner is installed, a parge coat is recommended to be installed. Refer to Chapter 8 of the NUDURA Installation Manual for proper preparation and installation of the parge coat.



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Installation Instructions Cont'd

Step 10:

After the parging has cured the pool can be prepared for liner installation. Refer to liner manufacturer for proper installation steps and instructions.

Step 11:

Complete installation of unfinished features such as skimmer basket, drains, circulation jets and lights.

Step 12:

Pool filling and backfilling can now begin. As the water level in pool rises backfill can be placed, it is important to keep equal pressure on each side of the wall. Do not backfill to full height without water in the pool to balance the pressure.

Step 13:

Complete pool edge and decking as per landscape design.

Note:

If a hard coat finish such as tile or cementitious finish is desired it is suggested to use the NUDURA One Series form unit for the walls. This will allow for proper bonding of the finish material to the structure.

