

Comparing Polyurethane ICF and Polystyrene (Styrofoam) ICF:

Currently, polystyrene—commonly known as Styrofoam—is the most widely used foam in ICF (Insulated Concrete Form) construction. However, polyurethane ICF blocks offer significant advantages, even though they are less common due to their higher material and production costs.

Why Polyurethane is Superior to Styrofoam:

Polyurethane foam outperforms Styrofoam in several key areas:

Higher Insulation Value: Polyurethane offers an impressive R-7.5 per inch of thickness, compared to about R-4.5 per inch for Styrofoam.

Greater Durability: It's far more resistant to chemical exposure and high temperatures. While Styrofoam can melt at relatively low temperatures and dissolve when exposed to substances like gasoline or nail polish remover, polyurethane maintains its structure and integrity.

Superior Fire Resistance: Our polyurethane ICF blocks are rated Class 1 for fire resistance an exceptional standard when compared to the lower heat tolerance of Styrofoam.

At Newgen ICF, we're proud to be one of the few companies in the world capable of producing polyurethane ICF blocks—and we do it better and more cost-effectively than anyone else, whether it's polyurethane or Styrofoam.

When it comes to insulation, durability, and overall performance, Newgen ICF delivers the highest quality ICF blocks on the market.