



# Low Thermal Conductivity with Murus® SIPs

## MURUS PROJECT PROFILE



Located in Bridgeport, PA, a suburb of Philadelphia, this residential duplex, the “5th Street Project”, was an infill within an older residential community. Designed by [Architetra](#) and built by [Alter Eco](#), of Paoli, PA, both the builder and architect were seeking a super-efficient enclosure/framing system. [Murus](#) SIPs provided just the solution with an easy, “system” approach and rapid construction to the overall build.

An older, existing home was removed from the site to make way for the new project, which was designed to blend into the existing neighborhood of mostly row homes. A sloping lot and rear alley allowed for a “Garage Under” design, using precast concrete walls for the foundation, while the home was framed out using Murus [EPS](#) SIPs to form both the wall and roof structure. The EPS SIPs were specified in the project not only because of the ease of installation, but due to their low thermal conductivity and extremely high strength-to-weight ratio. The EPS product contains a core of rigid cellular foam plastic, and each core is molded in large blocks and cut to size, then laminated to OSB skin surfaces with an extremely strong and durable one-part Urethane adhesive.

The 5th Street Project received the following energy efficiency certifications: Energy Star, US DOE ZERH, EPA Indoor Air Quality Plus Qualified Home.

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