



# Murus<sup>®</sup> SIPs- Maximizing Views & Energy Efficiency

MURUS PROJECT PROFILE



Located near the mouth of the Rappahannock River where it meets the waters of the Chesapeake Bay, the town of Kilmarnock, VA is the commercial hub of what is known colloquially as the "Northern Neck." It offers breathtaking waterfront views of what locals call the "riva" and the beautiful expanse of the Chesapeake. Here, in this hamlet is where the Smithgall family retained [Peabody Architects](#) of Alexandria, VA to design their 3,500sqft waterfront residence.

Charged with designing a home to strike the perfect balance between maximizing views and delivering the most energy efficient, high quality enclosure, Peabody specified Murus [GPS SIPs](#) for framing both the walls and roof. The GPS SIPs are available in a variety of thicknesses, and for this project the wall SIPs were specified as 8-1/4" (R-36) and the roof SIPs as 12-1/4" (R-55).

The Murus GPS SIPs are a proprietary expanded polystyrene product, formulated by incorporating graphite into the EPS cell structure. The particles reflect and absorb thermal radiation, thus improving the ability of EPS to insulate, and the greater insulating properties, combined with the ease of installation were a primary factor in Peabody's specification of the Murus product.

The Smithgall Project was given a -4 HERS Score (8.6kW PV) and received the following energy efficiency certifications: Energy Star Certified, US DOE Zero Energy Ready Homes, EPA Indoor AirPlus Qualified. Passive House Certification is fully expected this summer.

Architect: [Peabody Architects](#), Alexandria, VA  
Builder: [Transitions Design-Build](#), Richmond, VA

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