

# Roof/Ceiling System

The 12” roof rafters are caulked at the headers, and insulated with two 5.5 inch layers of Roxul rock wool insulation. It is denser than fiberglass, is easier to work with and has a higher R value. A 1.5” layer of reused polyiso boards is nailed to the rafters and caulked. Over the insulation is a Siga Majpell membrane that allows for moisture management in the ceiling. An air space is created for electrical wiring and a firm surface to attach drywall with 1 x 4’s reused from pallets screwed through to the rafters. The roof is insulated to R-60.



*Roxul insulation*



*Polyiso boards*



*Siga Majpell barrier*