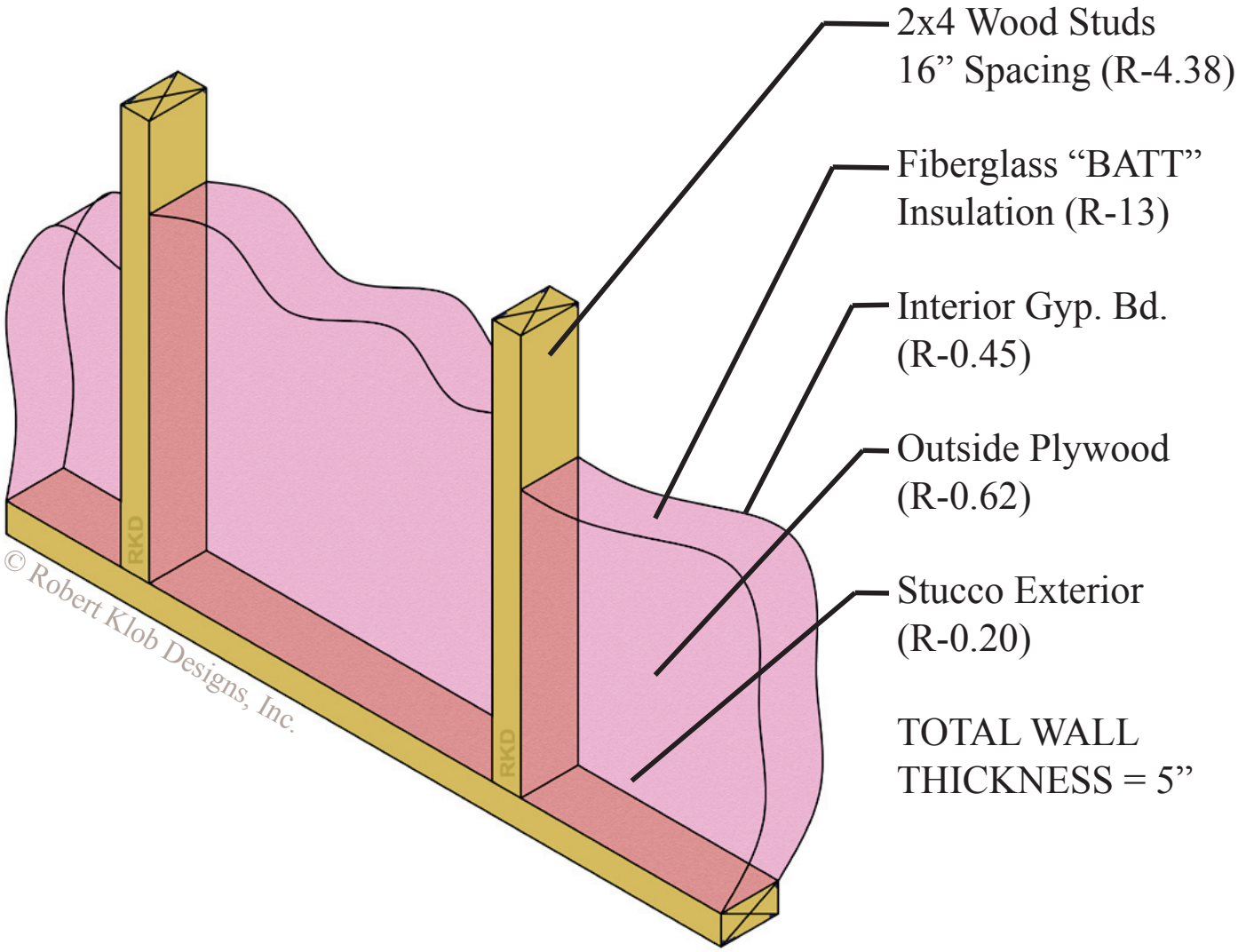
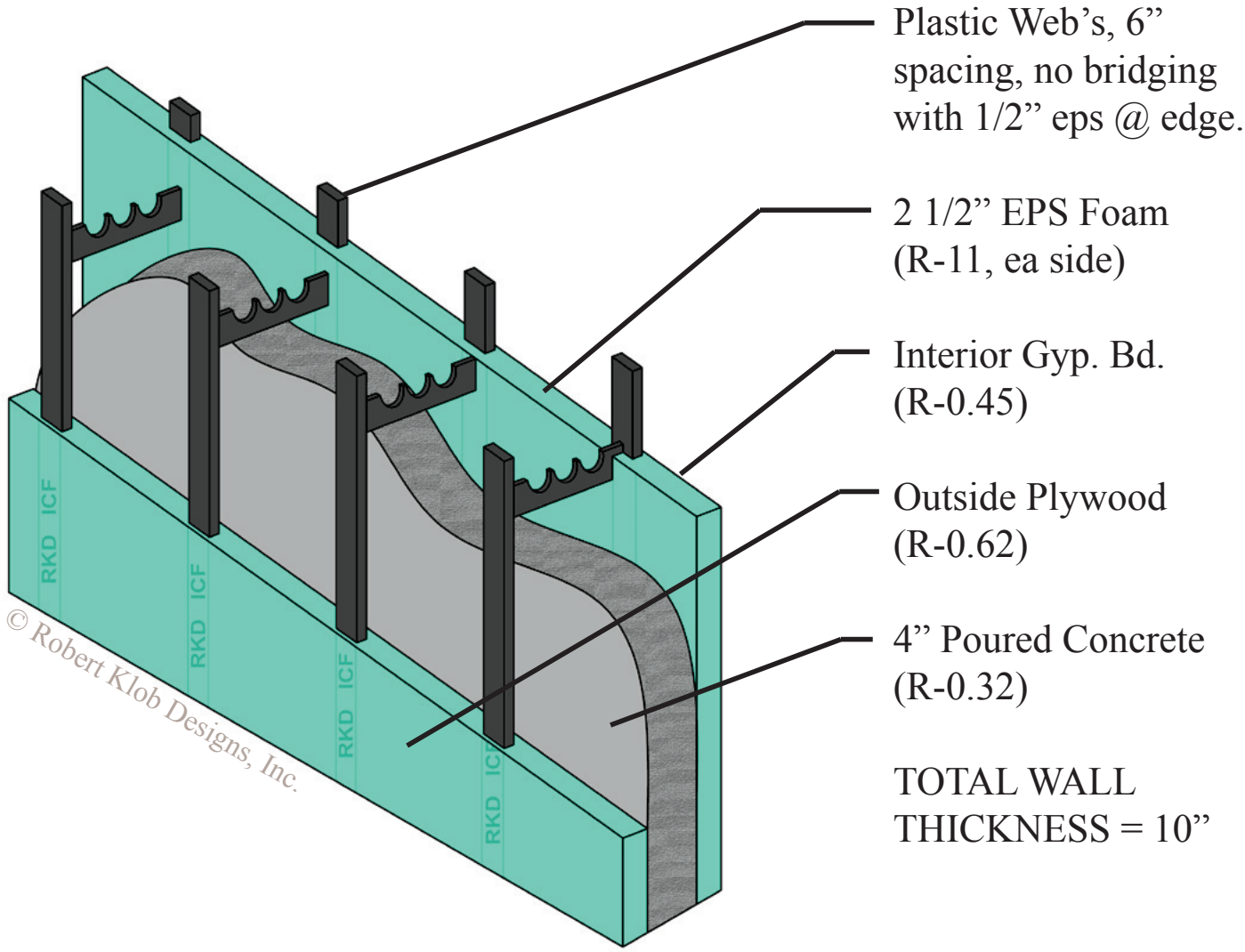
2x4 WOOD STUD WALL



2x4 stud walls are advertised as R-13 when only 77% of the wall is R-13 & 23% of the walls are R-4.38, averaging only R-8.69. Combine that with the fact that nearly 85% of all “Batt” Insulation is installed incorrect - diminishing it to approx. R-5.

“Bridging” occurs when a low R value object connects the exterior to the interior and allows an easier transfer of air - like a wood or metal stud.

4” CORE ICF WALL



Concrete has a low R value, but unlike BATT insulation, it’s thermal mass has the capacity to store warmth or cold. This results in moderate indoor temperature fluctuations, slower transfer of heat through the building envelope, and the ability of a building to store energy and shift peak energy requirements.

Energy savings due to thermal mass is dependent on climate. Mass has the greatest benefit in climates with large daily temperature fluctuations above and below the balance point of the building (55 to 65°F).