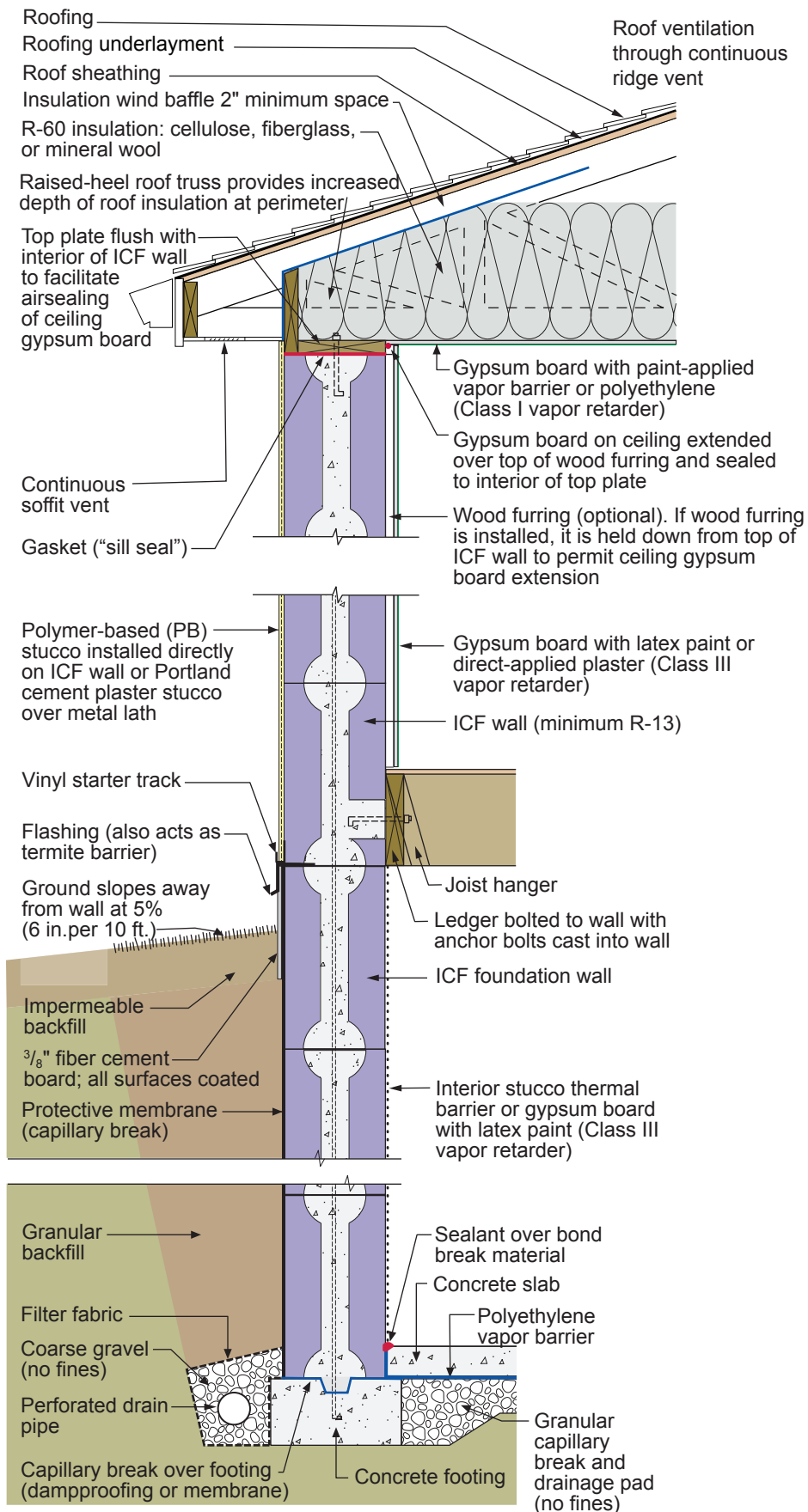


2021 IECC Climate Zone 4C: Vented Attic, ICF Wall, ICF Basement Foundation



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- The function of the raised-heel roof truss is to control the temperature of the interior corner where the exterior wall meets the ceiling to control dust marking and mold. The minimum thermal resistance over the top of the wall assembly should match or exceed the thermal resistance of the wall assembly. Increasing the height of the raised heel can allow lower attic insulation levels by code. Per IECC 2021 Section R402.2.1, Ceilings with Attics, the ceiling insulation of this assembly can be R-49 rather than R-60 if the raised-heel roof truss is high enough to facilitate R-49 over the entire wall.
- The ceiling gypsum board is installed prior to the wall gypsum board in order to accommodate a “fillet” bead of sealant that seals the ceiling gypsum board to the top plates creating a continuous air control layer (“air barrier”) across the entire ceiling including interior partition walls.
- ICF assemblies need an interior thermal barrier for fire protection – either gypsum board or stucco can be used for this purpose.