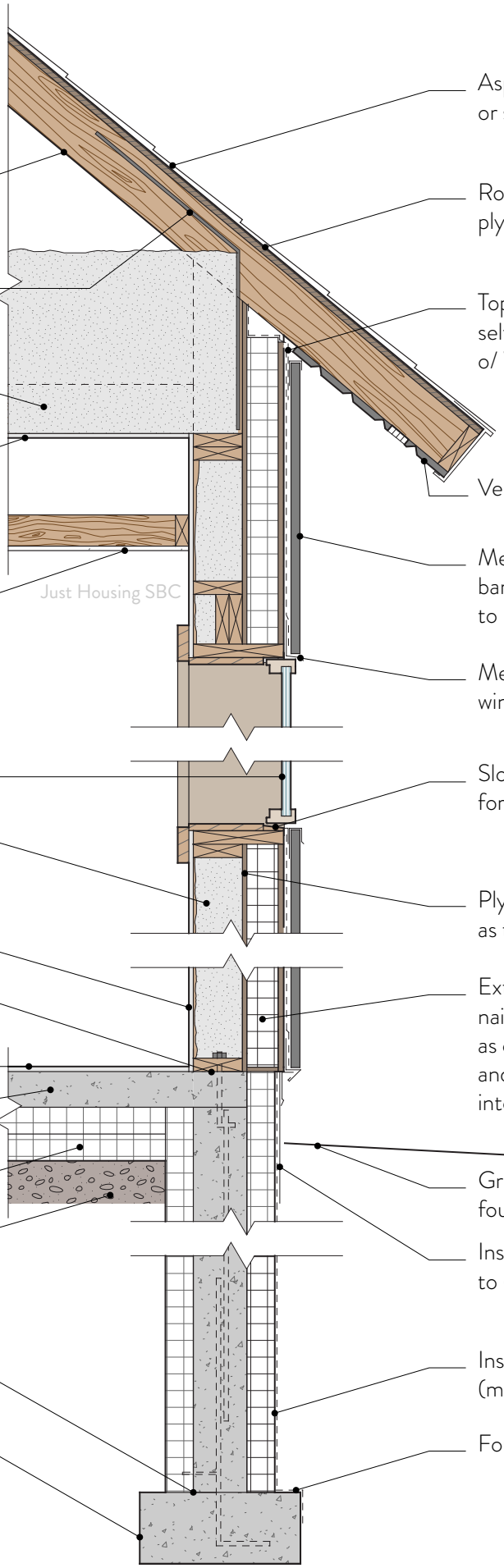
Anatomy of a Just Housing Wall Climate Zone 7



Asphalt shingles or standing seam metal roof

Raised heel roof trusses

Roof underlayment over plywood roof sheathing

Insulation baffles to maintain vent space

Top of nailbase sealed w/ self adhering flashing lapped o/ WRB on face of nailbase

20" blown insulation (R-70)

Sealed air barrier/vapor retarder across bottom of roof truss, connected to wall plates to maintain continuity

Vented Metal Soffit

Metal siding o/ water resistive barrier (WRB) fastened to nailbase panels

Dropped ceiling for ductwork installed below thermal, vapor and air barriers

Metal head flashing at windows and doors

Tri-pane Window (U 0.2)

Sloped sill assembly at windows, for drainage

Dense packed cellulose, mineral wool, or fiberglass cavity insulation in 2x6 stud walls (R-21)

Plywood structural sheathing, sealed as the air barrier

Latex paint over gypsum wall board

Capillary break between sill plate and slab

Extruded Polystyrene (EPS) nailbase panels (R-15) as continuous insulation and fastened with screws into stud walls

Finished flooring

4" concrete slab o/ soil gas retarder

6" of EPS (R-24)

Grade sloped away from foundation to manage water

4" compacted clean aggregate o/ undisturbed soil or compacted fill

Insulation protection to 6" below frade

Capillary break between foundation wall and footing

Insulated concrete form (min. R-22)

Continuous concrete footing below frost depth or engineered frost protected shallow foundation

Foundation waterproofing

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