



Continuous Air Barriers

- A**
- 16"-deep wood I-joists with dense-pack cellulose insulation
 - Two layers of 3" rigid polyiso insulation on top of rafters with Humida as WRB
 - 2x4 strapping (run up roof slope) acts as a venting channel
 - 5/8" plywood sheathing with Grace Ice and Water Shield and standing-seam roofing
- B** Interior furred out with 2x strapping, electrical wiring run in 1 1/2" chase
- C** Ridge vent
- D** Eaves installed outside of the building envelop
- E** Soffit vent
- F** Continuous outer air barrier
- Solitex Fronta Humida WRB (blue line) run continuous up wall and over roof plane
 - Grace Ice and Water Shield joins Humida and Stego Wrap membranes at stone shelf
 - 10-mil Stego Wrap vapor barrier (yellow) run under EPS sub-slab insulation and up foundation
- G** Continuous inner air barrier
- Intello Plus vapor retarder (green) run up walls and cathedral ceiling
 - Mento-1000 membrane (red) wrapped around first-floor joists, joins the basement's Intello Plus membrane w/ upper floor's
- H** Vapor-open wall assembly
- 16"-deep wood I-joists installed vertically act as stud wall
 - "Stud" bays filled with dense-packed cellulose insulation
- I** Air barriers incorporated into window and door bucks, seams sealed with Tescon Vana tape. Extoseal Encors tape used for sill pans.
- J** Continuous insulation plane from foundation up to framed wall
- K** 12"-deep wood I-joists, joist bays dense-packed. Squash blocks added joists.
- L** Basement wall assembly
- 12" foundation with 8" stone shelf
 - 2"-thick EPS rigid insulation
 - 2x4 stud wall filled with Roxul batt insulation
- M** Basement floor assembly
- Compacted gravel fill
 - 12"-thick EPS rigid insulation
 - 4" concrete slab
- N** High-density plastic dimpled mat protects Stego Wrap membrane
- O** Grace Vicor Plus (black), protects Stego Wrap
- P** 40"-wide x12"-thick footing