

# Heat Distribution

- Upper-Level: Warmboard @93° F supply Heating
- Lower-Level: Concrete Slab @93°F supply Heating •
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## **ESP Zoned Air Handler**

500 CFM / 7020 BTUh

- Porch 125 CFM
- Great Room 125 CFM
- Bedrooms 125 CFM
- Bathroom/Study 125 CFM





### Lower Level Manifold (7353 BTUh)

- Mechanical 1 Zone Valve
- Family Room 2 Zone Valves
- Bedroom 2 1 Zone Valve •
- Bedroom 3 1 zone valve
- Storage / Library / Bath 1 Zone Valve •
- Spare 2 Zone Valves •

#### Concrete Slab





# Sub-Flooring – Glued and Screwed

- 2060 square feet of sub-flooring
- 65 sheets of Warmboard-S
- Warmboard PEX-AI-PEX tubing

Warmboard S – Upper Level

- Glue Warmboard with Loctite PL Max (Manufacturer recommended).
- Screw with Simpson WSV Sub floor screw (Quik Drive Auto-Feed)
- Warmboard PEX-AL-PEX length is not to exceed 300 feet.
- Tile flooring installed using Schluter uncoupling membrane.
- After PEX tubing is installed, Install Ram Board or equivalent, to help protect the tubing.
- Rockwool ComfortBatt R-19 or BIBS insulation under Warmboard (after house is enclosed).

