

GREEN BUILDING SOLUTIONS & ALTERNATE ENERGY SOURCES

Exterior Wall Systems

- Insulating Concrete Form (ICF): block exterior walls with 6-10 inch thickness
ARXX Building Products **800-293-3210** www.arxx.com
- Autoclaved Aerated Concrete (AAC): block exterior walls with 4-12 inch thickness
Aercon AAC **800-830-3171** www.aerconaac.com
- Structural Insulated Panels (SIPS) for all exterior wall and roof applications with 4.5-8.25 inch thickness
(Southwest Region) Vantem Panels **830-632-1500** www.vantempanels.com
- Tempshield Reflective Insulation: Use in 6 inch exterior wall with two 1 inch air spaces between sheetrock and 4 inch glass fiber insulation
(Southwest Region) Innovative Insulation, Inc **866-718-4905** www.radiantbarrier.com
- Reflective insulation or radiant barrier applied as house wrap, pipe insulation and duct insulation
Reflectix **800-879-3645** www.reflexinc.com
- Super R Premium for house wrap and radiant barrier at crawl space, walls and attic: Use vapor barrier fabric on inside sheetrock wall application. Requires 6 inch exterior wall with 2 inch air space between sheetrock and 4 inch glass fiber insulation.
(Southwest Region) Innovative Insulation, Inc **800-825-0123** www.radiantbarrier.com

Roofing Systems

- Radiant barrier reflective shield installed under roof deck, bottom of roof rafter or over ceiling insulation
(Southwest Region) Innovative Insulation, Inc **800-825-0123** www.radiantbarrier.com
- Sealection Agribalance (Demilec) spray foam insulation installed on exterior walls and roof rafters:
No radiant roof reflective shield. Reduces moisture intrusion and energy loss. No ceiling insulation needed.
(Southwest Region) South Texas Insulation **210-599-6881** www.southtexasinsulation.com
and Superior Insulation Systems **210-340-1488** www.superiorinsulationsystems.com

Other Energy Conservation Techniques

- Use tankless water heaters
- Use gas in lieu of electricity, for water heaters, furnaces, ranges and clothes dryers
- When specifying aluminum windows, use Don Young windows with double flange seals reducing energy loss and eliminating interior moisture condensation
- Solar hot water systems
Silicon Solar **877-786-6299** www.siliconsolar.com
- Apricus solar hot water systems
(Southwest Region) Cincosolar **830-885-5110** www.cincosolar.com

Alternate Energy Sources

- Photovoltaic power
- Passive solar energy
- Wind turbines
- Geothermal energy: also known as Geo-exchange heat pump systems

Note: The intent for contractor/supplier listings are to provide product quality and description. Other reputable contractors can provide equal service. Gerlach Design Studio is not affiliated with any of the listed service providers, nor does it support or endorse external links: They are provided for informational purposes only.