

# INSULATION AND VENTILATION

## ATTIC

- Type: 8 inches of Loose fill pink-fiber-glass
- Conditions:
  - 1- The insulations were not evenly distributed and not adequate.



- 2- There were channels in the insulation which showed animal and rodent activity.



- 3- The attic hatch door did not have air tight gaskets and adequate insulation.
- *Recommendations:*
    - 1- Improve the level of insulation to at least 12 inches and distribute them evenly.
    - 2- Install air tight gasket for the hatch door with adequate insulation.
    - 3- Monitor the attic for any future animal activity for its elimination.

## WALLS

- Types:
  - 1- Bat type fiberglass from the visible sections such as: near the electric panel.
  - 2- Rigid type for the crawl space foundation wall covering.



## FLOORS

- Type: Bat type fiberglass from the visible sections of crawl space.

## UNFINISHED SPACES

- Type: As mentioned for the crawl space for walls and floors.

## PIPES AND DUCTS

- Type: A kind of insulation with aluminum foil covering was observed for the ducts in the crawl space.



## VENTILATION

- Conditions:
  - 1- A few of the soffit vents, in the attic, were blocked.
  - 2- The gas-dryer's vent was dented.



- *Recommendations:*
  - 1- Unblock the soffit vents.
  - 2- Repair the dryer's vent and keep the dryer's lint always clean.

## VAPOR BARRIERS

- Conditions: No comments

## EXHAUST FANS

- Condition: The bath room exhaust fans were not penetrated from the roof. They either had not any draw or discharged in the attic.
- *Recommendations:*
  - 1- Install proper duct for the bath room exhaust fans, which penetrates through the roof.
  - 2- Insulate the mentioned ducts, after installation.