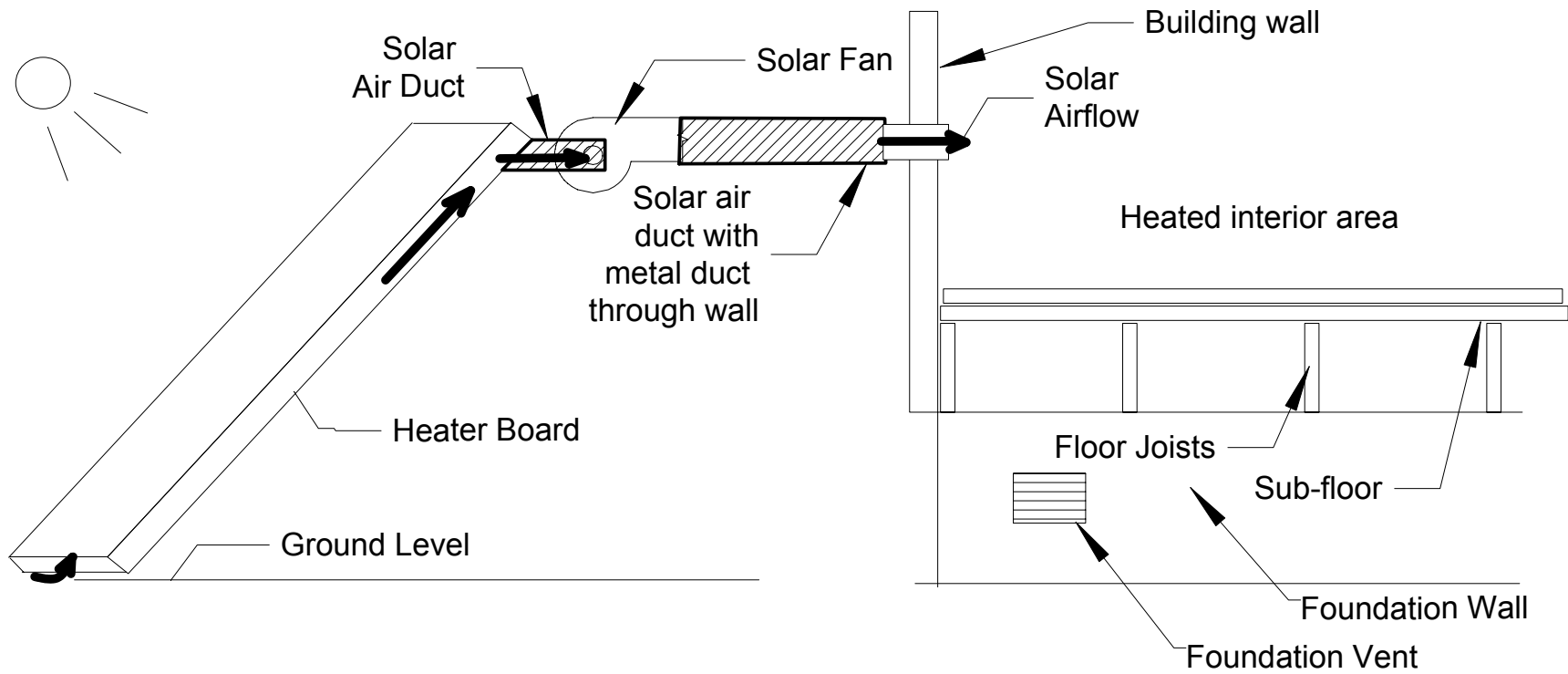


# Heater Board Direct Space Heating, Mechanical Schematic



This stylized illustration of a direct solar air heating system for comfort heating of interior spaces, shows the major components and intended operation. Numerous variations are possible,

### Operation:

During the heating season, warm solar heated air is blown directly into the interior spaces of a building. The air can be blown into the building through a hole in the wall or foundation or through holes in soffits or the bottom of bay window or other means. The fan can be controlled by a thermostat that turns on the fan whenever the solar temperature is warmer than the thermostat setting in the room to be heated.

An alternative it to control the fan with a differential thermostat that turns on the fan whenever the Heater Boards are warmer than the internal temperature of the room.

This may lead to overheating of the room, but will transfer more solar heat in to the building.

Solar fans can be located inside the building or crawl space, out of the weather.

Warm exhaust air from the space can be sent across a heat pump outdoor coil to boost heat pump performance.

TITLE  
**Heater Board Direct Space Heating Schematic**

DWG NO

SCALE

DATE 10/17/06

SHEET

REV

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