

Enertia Building System for Energy Sufficiency

The Enertia Building System consists of designed, engineered, and factory manufactured components for building traditional styled homes and offices that need no outside source of energy for heating and cooling. The buildings are configured so that naturally occurring air currents extract and capture solar and geothermal energy, transferring the energy to the interior walls. The building then becomes a natural heat pump. This action is totally silent and not dependent on fuel or electricity. Like a heat pump, the system is reversible for summer cooling. The technology is based on a 1981 National Institute of Standards study of thermal inertia of solid wooden walls. The solid wood wall components are energy engineered by considering wood species, density, heat capacity, and proprietary energy storage compounds. Each solid wall component replaces up to six standard wall parts: siding, frame, sheathing, insulation, vapor barrier, and interior paneling, and up to nine conventional construction steps are replaced by one operation.

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