

Manual J Residential Load Calculation 2006

It is difficult to compare the cost of gasoline with other fuels if they are sold in different units and physical forms. GGE attempts to solve this. One GGE of CNG and one GGE of electricity have exactly the same energy content as one gallon of gasoline. In this way, GGE provides a direct comparison of gasoline with alternative fuels, including those sold as a gas (natural gas, propane, hydrogen) and as metered electricity.

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Gasoline gallon equivalent $\frac{2}{3}$ of the heat value available in pure gasoline. GGE allows consumers to compare the energy content of competing fuels against a commonly known fuel, namely gasoline. In the most common calculation, that is, the BTU value of pure gasoline vs gasoline with 10% ethanol Gasoline gallon equivalent (GGE) or gasoline-equivalent gallon (GEG) is the amount of an alternative fuel it takes to equal the energy content of one

liquid gallon of gasoline 1d37a7b915

Elevators are used in agriculture and manufacturing to lift materials. There are various types, like chain and bucket elevators, grain augers, and hay elevators. Modern buildings often have elevators to ensure accessibility, especially where ramps aren't feasible. High-speed elevators are common in skyscrapers. Some elevators can even move horizontally. 1d37a7b915

Power-to-weight ratio The inverse of power-to-weight, weight-to-power ratio (power loading) is a calculation commonly applied to aircraft, cars, and vehicles in general, to Power-to-weight ratio (PWR, also called specific power, or power-to-mass ratio) is a calculation commonly applied to engines and mobile power sources to enable the comparison of one unit or design to another. Power-to-weight is often quoted by manufacturers at the peak value, but the actual value may vary in use and variations will affect performance. It is also used as a measurement of performance of a vehicle as a whole, with the engine's power output being divided by the weight (or mass) of the vehicle, to give a metric that is independent of the vehicle's size. Power-to-weight ratio is a measurement of actual performance of any engine or power source

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Cold-formed steel members have been used also in bridges, storage racks, grain bins, car bodies, railway coaches, highway...
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Elevator They are typically powered by electric motors that drive traction cables and counterweight systems such as a hoist, although some pump hydraulic fluid to raise a cylindrical piston like a jack. complex that it was almost impossible to do manually and it became necessary to use software to run the calculations. The GA formula was extended even further An elevator (American English, also in Canada) or lift (Commonwealth English except Canada) is a machine that vertically transports people or freight between levels
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Wrightsoft Wrightsoft is headquartered in Lexington, Massachusetts, USA. As the original technical software partner of ACCA, Wrightsoft Wrightsoft is a software development firm for heating, ventilation, and air conditioning (HVAC). Established in 1985, Wrightsoft has served residential, commercial, and educational markets by providing HVAC design, specification, and sales software. Conditioning

Contractors of America to design software for HVAC Manual J load calculations 1d37a7b915

Ventilative cooling Ventilative cooling strategies are applied in a wide range of buildings and may even be critical to realize renovated or new high efficient buildings and zero-energy buildings (ZEBs). The use of outside air reduces the cooling load and the energy consumption of these systems, while maintaining high quality indoor conditions; passive ventilative cooling may eliminate energy consumption. To develop guidelines for integration of ventilative cooling in energy performance calculation methods and Ventilative cooling is the use of natural or mechanical ventilation to cool indoor spaces. Ventilation is present in buildings mainly for air quality reasons. in both residential and commercial buildings. Ventilative cooling is dependent on the. It can be used additionally to remove both excess heat gains, as well as increase the velocity of the air and thereby widen the thermal comfort range. Ventilative cooling is assessed by long-term evaluation indices 1d37a7b915

Thermal comfort The heat transfer is proportional to temperature difference. Both the hot and cold scenarios lead to discomfort. gov. In cold environments, the body loses more

heat to the environment and in hot environments the body does not release enough heat. The human body will release excess heat into the environment, so the body can continue to operate. September Thermal comfort is the condition of mind that expresses subjective satisfaction with the thermal environment. Maintaining this standard of thermal comfort for occupants of buildings or other enclosures is one of the important goals of HVAC (heating, ventilation, and air conditioning) design engineers. "OSHA Technical Manual (OTM) Section III: Chapter 4". The human body can be viewed as a heat engine where food is the input energy. determination and interpretation of heat stress using calculation of the predicted heat strain. osha 1d37a7b915

Impervious surface waste; gasoline, motor oil and heavy metals from vehicles; high sediment loads from stream bed erosion and construction sites; and waste such as cigarette Impervious surfaces are mainly artificial structures—such as pavements (roads, sidewalks, driveways and parking lots, as well as industrial areas such as airports, ports and logistics and distribution centres, all of which use considerable paved areas) that are covered by water-resistant materials such as asphalt, concrete, brick,

stone—and rooftops. Soils compacted by urban development are also highly impervious

Building performance simulation Building performance simulation has various sub-domains; most prominent are thermal simulation, lighting simulation, acoustical simulation and air flow simulation. been developed focusing on energy assessments and heating/cooling load calculations. Building performance simulation itself is a field within the wider realm of scientific computing. Most building performance simulation is based on the use of bespoke simulation software. The objective of building performance simulation is the quantification of aspects of building performance which are relevant to the design, construction, operation and control of buildings. This effort resulted in more powerful simulation engines released Building performance simulation (BPS) is the replication of aspects of building performance using a computer-based, mathematical model created on the basis of fundamental physical principles and sound engineering practice

Rain garden A benefit of planting rain gardens is the consequential. landscape sites that reduce the flow rate, total quantity, and

pollutant load of runoff from impervious urban areas like roofs, driveways, walkways, parking Rain gardens, also called bioretention facilities, are one of a variety of practices designed to increase rain runoff reabsorption by the soil. They can also be used to treat polluted stormwater runoff. Rain gardens are designed landscape sites that reduce the flow rate, total quantity, and pollutant load of runoff from impervious urban areas like roofs, driveways, walkways, parking lots, and compacted lawn areas. Rain gardens provide a method to reuse and optimize any rain that falls, reducing or avoiding the need for additional irrigation. Rain gardens rely on plants and natural or engineered soil medium to retain stormwater and increase the lag time of infiltration, while remediating and filtering pollutants carried by urban runoff 1d37a7b915

The inverse of power-to-weight, weight-to-power ratio (power loading) is a calculation commonly applied to aircraft, cars, and vehicles in... 1d37a7b915 Thermal neutrality is maintained when the heat generated by human metabolism is... 1d37a7b915 Cold-formed steel, especially in the form of thin gauge sheets, is commonly used in the construction industry for structural or non-structural items such as columns, beams, joists, studs, floor decking,

built-up sections and other components. Such uses have become more and more popular in the US since their standardization in 1946.

Cold-formed steel Stock bars and sheets of cold-rolled steel (CRS) are commonly used in all areas of manufacturing. across openings, to distribute loads to the adjacent jamb studs. The terms are opposed to hot-formed steel and hot-rolled steel. In high-rise commercial and multi-family residential construction, CFSF is typically Cold-formed steel (CFS) is the common term for steel products shaped by cold-working processes carried out near room temperature, such as rolling, pressing, stamping, bending, etc

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