

Pellet Stock Dimensioning

Example for the calculation of the storage

An average well insulated one-family house of 150m² has a heating load of about 10 kW. According to the rule of thumb, that makes a storage volume of:

$$10\text{kW heating load} * 0,9\text{m}^3 = 9\text{m}^3$$

That makes a storage base area of: $9\text{m}^3 : 2,5\text{m (ceiling height)} = 3,6\text{m}^2$

According to this, the need of storage room is about 1,8m * 2m. Since only 2/3 of the available space can be used for storage, the storage volume actually adds up to

$$(3,6\text{m}^2 * 2,5\text{m}) * 2/3 = 6\text{m}^3$$

This matches an amount of 4000kg (1m³= 650kg) of Pellets.