

Battery cabinet thermal isolation station cabinet composition





Overview

What is the wall thickness of a fully enclosed battery?

Depending on the required thermal properties, the total wall thickness is between 5 mm and 15 mm. One possible design variant of a fully enclosed battery is shown in Figure 7. With the concept of a multifunctional battery housing - B: HOUSE® - a wide variety of basic requirements can be fulfilled within one single unit.

How thick is the battery housing?

The battery housing (B: HOUSE®) has an approx. 15 mm thick GVI® insulation - open on one side. The insulating effect is sufficient to keep the battery pack at operating temperature for more than 12 hours without additional heating! (ambient temperature minus 20 °C; starting temperature of the battery 25 °C; temperature after 12 h 20 °C).

What is the basic technology of the B house® concept?

The basic technology of the B: HOUSE® concept as well as the basic technology for this is the GVI® technology, which should be described first. GVI® stands for Assisted Vacuum Insulation - we are talking about a highly efficient thermal insulation.



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