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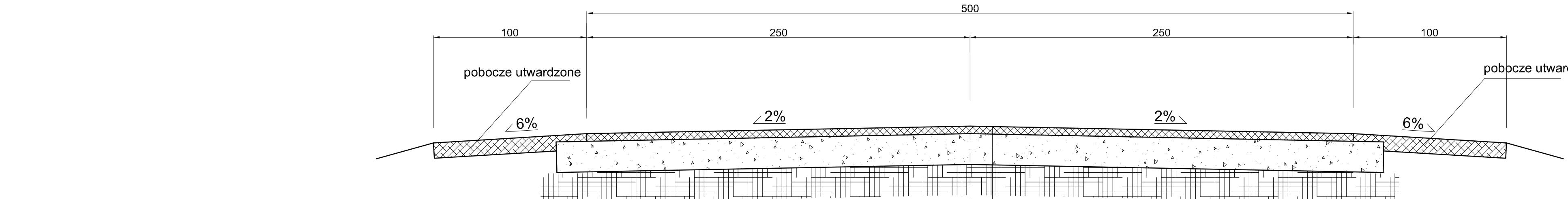


Figure 1. A schematic diagram of the experimental setup. The sample is a rectangular block of  $\text{Fe}_3\text{O}_4$  with dimensions  $10 \times 10 \times 10$  mm $^3$ . It is placed in a vacuum chamber with a base pressure of  $10^{-6}$  mbar. The sample is heated by a resistive heating coil (A) and cooled by a Peltier cooler (B). The temperature is measured by a thermocouple (C) located at the center of the sample. The sample is surrounded by a magnetic field of  $1 \text{ T}$ .

