

The diagram illustrates a cross-section of a composite wall with the following layers and properties from left to right:

- Outside air**: Temperature T_{out} , heat transfer coefficient h_{out} .
- Outside film**: Thickness δ_{out} , thermal conductivity k_{out} .
- Brick**: Thickness δ_{br} , thermal conductivity k_{br} .
- Plaster**: Thickness δ_{pl} , thermal conductivity k_{pl} .
- Insulation**: Thickness δ_{ins} , thermal conductivity k_{ins} .
- Interior film**: Thickness δ_{in} , thermal conductivity k_{in} .
- Inside air**: Temperature T_{in} , heat transfer coefficient h_{in} .

The total thickness of the wall is indicated as 150 mm. The insulation layer is labeled with a thermal conductivity of $k_{\text{ins}} = 0.04$ W/mK. The diagram also shows the heat flux q passing through the wall and the temperature distribution across the layers.

[illegible]