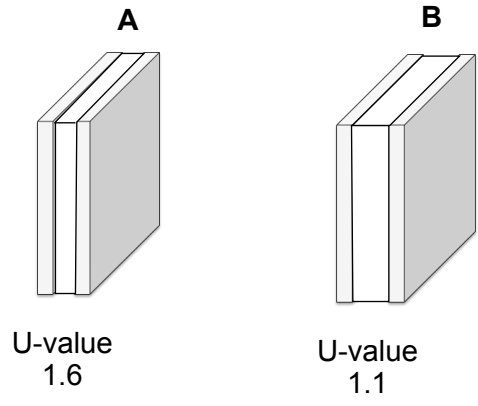


1 Cavity wall insulation is made of two layers and a gap filled with an insulating material.
The diagram shows two designs of cavity wall insulation.



The U-value for each design is shown.

1 (a) (i) What is meant by the term U-value? [1 mark]

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1 (a) (ii) Explain which design is better for building the walls of a house. [3 marks]

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1 (a) (iii) The insulating material is injected between the walls in liquid form. It sets to make a solid with many air bubbles.
Why does the presence of many air bubbles improve the insulation of the material? [2 marks]

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(Total 6 marks)

End

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