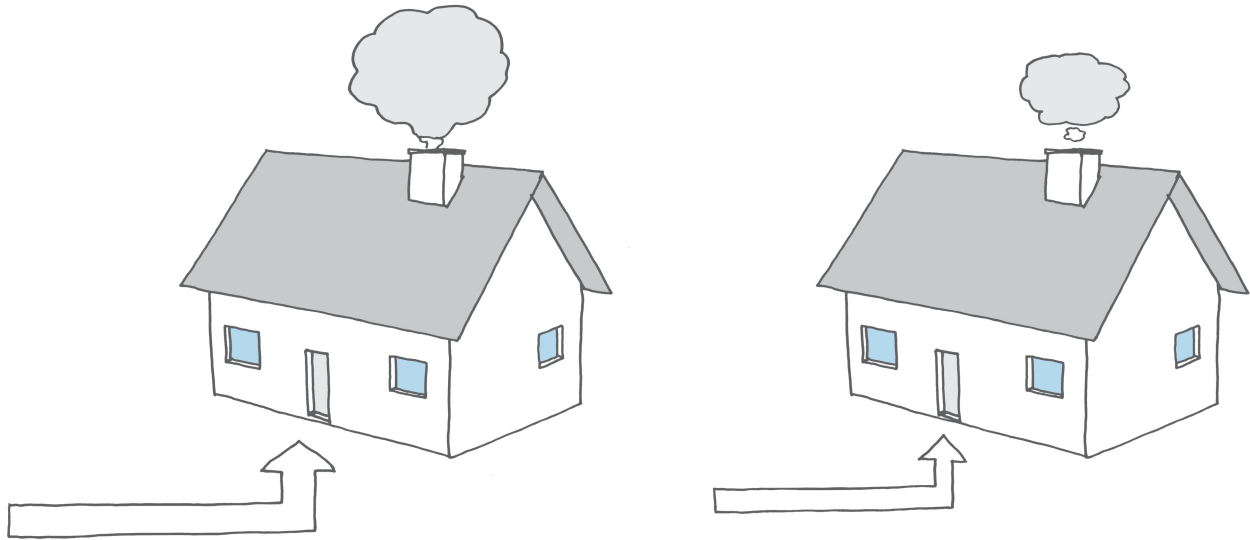


CONSTRUCTION TECHNOLOGY

Chapter 24: Energy Standards

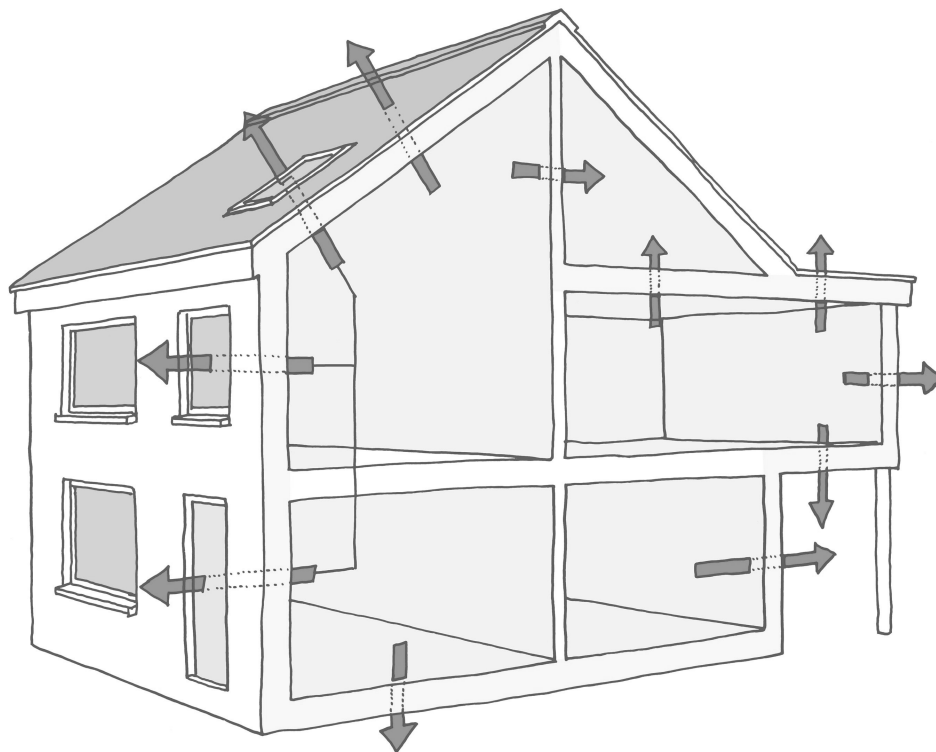
1. Explain, in your own words, why it is essential that new homes are designed and built to use significantly less energy than homes built in the past.

2. Annotate the sketch shown and explain it in your own words.



3. Outline the minimum renewable energy requirement for houses built to meet the current building regulations (Part L, 2001):

4. Annotate and colour the sketch shown:



5. The maximum permitted U-value for windows is ____ W/m²K when the combined area of opes is 20.6% of the floor area.

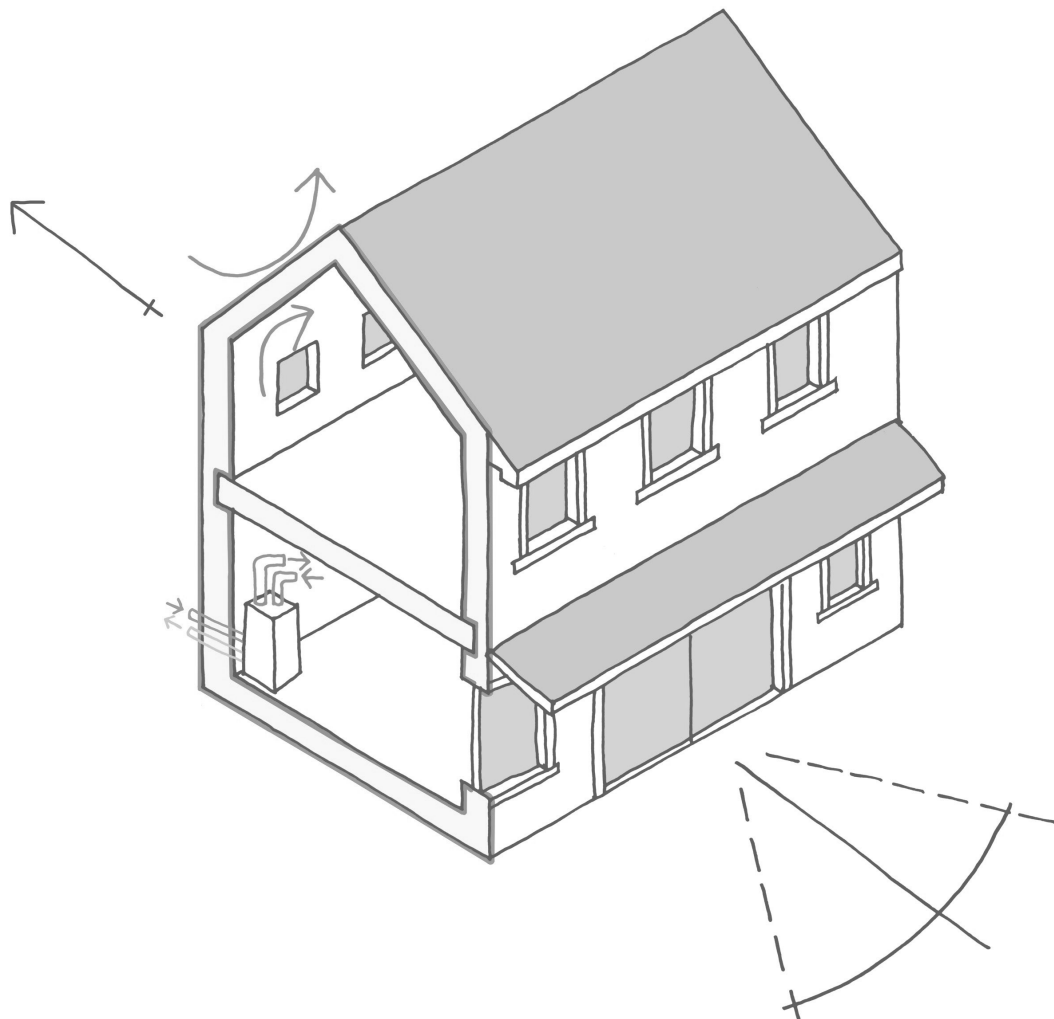
6. A BER is an approximate measure of _____

7. A BER rating is an accurate and reliable measure of the energy performance of a building. *True / False*

8. Outline three benefits of the BER system:

9. How does the Passivhaus Planning Package (PHPP) enable designers to improve the energy efficiency of their building's design?

10. Annotate and colour the sketch shown:



13. What are Passivhaus certified components?

14. Explain, using notes and a neat annotated sketch, the concept of *energy balance*.
