New materials: promise and proof

Distinguish research potential from demonstrated product performance.

Build Supply | SulfRock | Intelligent Panel Systems | HomePod

1 Graphene and composites

Material properties depend on form, quality and manufacture. A laboratory result is not a construction-product rating.

2 Aerogel products

Compare the supplied product, including thermal, fire, handling and durability evidence.

3 Responsive materials

Shape-memory and self-healing concepts require evidence for the intended temperature, loading and environment.

4 Digital design

Simulation can help screen options. Validate assumptions and confirm predictions with physical tests.

5 Environmental claims

Assess raw materials, processing, transport, lifespan and end-of-life options within a consistent scope.

6 Route to adoption

Require repeatable manufacture, quality control, usable details, approval evidence and supply-chain support.

Ask what has been tested, at what scale, and under which conditions.

REFERENCE GUIDANCE

NPL: graphene and materials measurement

Use current product instructions and the approved project design. For regulations, confirm the UK nation, applicable edition and transitional arrangements.

Help us keep our information accurate.

If you notice an error, outdated information or something that needs clarification in this document, please let us know.
Report an Issue: Visit our website and select Report a Website or Document Issue.
homepodltd.com