# NUHBC FOUNDATION

#### **Richard Smith**

Head of Standards, Innovation and Research







#### History

• Established in 2006

#### Purpose

- To deliver high-quality research and practical guidance
- Help the industry address the challenges of delivering twenty-first century homes

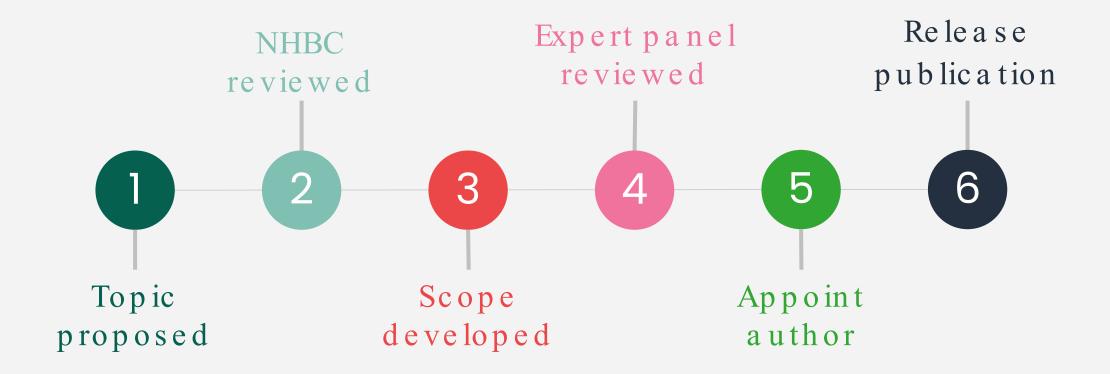
# NABC FOUNDATION

#### Objectives

- Improved understanding of new homes performance
- Produce effective advice for homeowners and occupants
- Clarification of technical options and solutions for designers and house builders
- Informing the debate and action to address the national housing supply



## Publication process



### Where do research ideas come from?

- 1 NHBC
- 2 Expert panel
- 3 Industry suggestions

#### Send us your suggestions

https://www.nhbc.co.uk/insights-and-media/foundation/about

## Who are the expert panel?

Rt Hon. the Lord Barwell





























## Previous partners and authors

























## **Publications**

#### 110 publications currently available















## Foundation overview

Website overview - 1Jan 2024 to 1Aug 2025

Active users 36,840

New users 19,180 Sessions 51,284

Engagement 64.38%

Linked In overview - 1Jan 2024 to 1Aug 2025

Impressions 13.13k

Click through 2.74%

Engagement 3.78%

## **Approved Documents**











## Maintaining quality

Design and construction of 1.5 million homes



























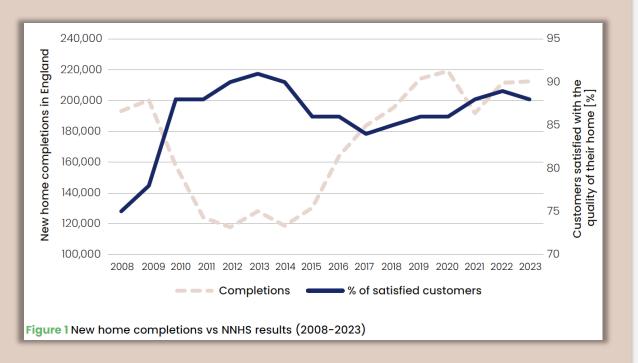


## Maintaining quality

Design and construction of the 1.5 million homes

#### 24 recommendations relating to:

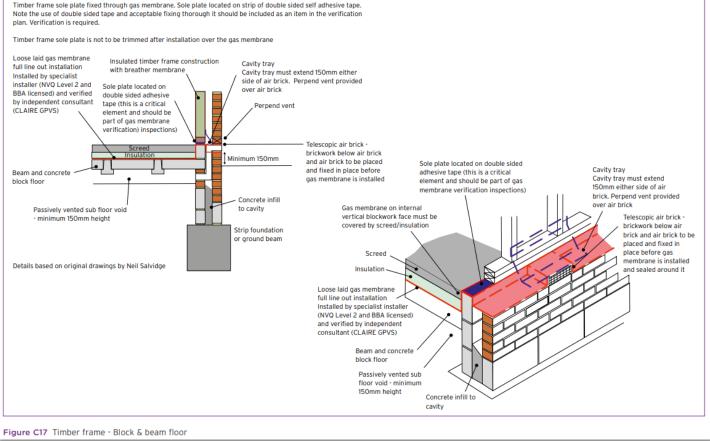
- supporting SMEs and micro builders with technical assessments
- regulatory change
- development of skills and workforce
- Modern Methods of Construction (MMC) training requirements
- standardisation
- supply chains and materials
- quality assurance
- culture
- performance gap.



## Hazardous ground gas

#### An essential guide for house builders







## Future Homes Standard (FHS)

Avoiding unintended consequences





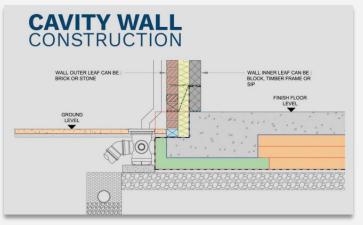
Report Chapters							
1. Fabric First  3. Regulating Heat  5. Controls and energy management  7. Overheating  9. Noisy Systems  11. Interstitial Condensation  13. Thermostats and controls  15. Zoning System Controls	0 0 0 0 0	2. Cost Implications  4. Energy from renewables  6. Draughts  8. Complex Systems  10. Condensation  12. Future Standards  14. Heat Networks  16. Design for people (not standards)					
				17. Space	0	18. Biodiversity Net Gain (BNG)	
				19. Building Regulations England Part L (BREL) Report	0	20. Transition to Electric Heating	
				21. Water Efficiency	0		



## Foundation solutions

Future proofing against climate change





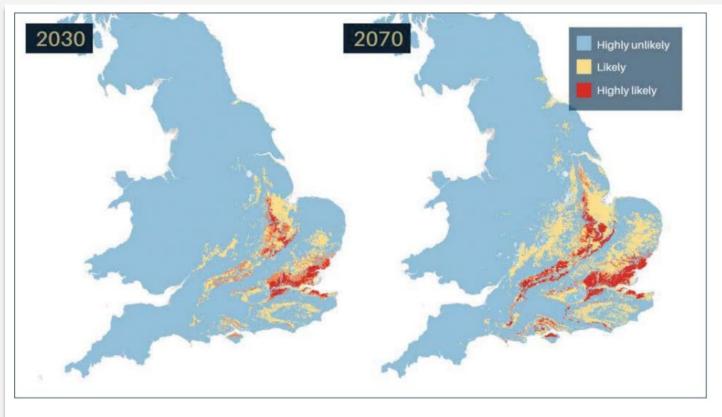


Figure 3 GeoClimate UKCP18 Open coverage map and comparison of 2030 and 2070 projections (Source: BGS)

## Future publications

#### In development



- 1. Water efficiency
- Managing construction in a changing climate
- 3. Skills in construction
- 4. Unintended consequences
- 5. Digitisation
- 6. Digital passports
- 7. Tree planting
- 8. Timber in construction

#### **Identifying author**



- 1. MMC in practice
- 2. Wind driven rain
- 3. Traditional roofing
- 4. FHS technology risks and mitigation

#### **Initial proposal**



- I. Repair, adapt and maintain
- 2. Preventing in-built moisture (in construction)
- Low carbon materials testing, planning requirements and transitions plans



## Getting involved

Do you have specific research capabilities in the planning, design, construction, occupation or performance of homes?

Do you know of research that is needed in a particular area?

#### **Get involved**

https://www.nhbc.co.uk/insightsand-media/foundation/about

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# Thank you NHBC

