Building for Tomorrow

14 March 2023 Belfast



Speaker spotlight: Linda Flynn MCIOB MCABE

Project Construction Quality Manager



Agenda

Working together, creating an environment to build quality homes





Construction Quality Team

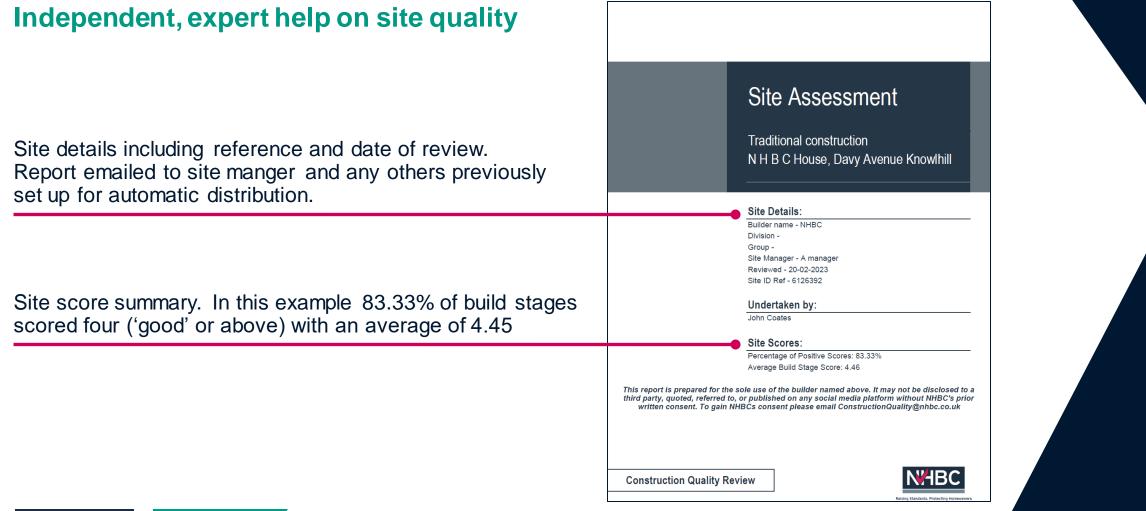
Helping you improve quality and consistency

- CQRs introduced in 2016
- The first CQRs were carried out by Inspection Managers across the UK
- Due to the success and popularity of the reviews, the Construction Quality team was established in 2019
- Team of 40 quality specialists across the UK
- MCIOB level, defined Continuing Professional Development / Training programme / Annual Skills Review / NHBC Academy
- 4,000+ CQRs are being completed per year
- Coverage in all areas of the UK, with an on-going recruitment drive
- Pricing based on a sliding scale £1650-£1,050





Construction Quality Reviews





Construction Quality Reviews

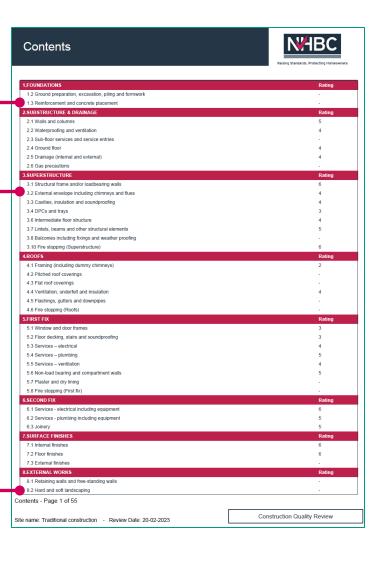
Independent, expert help on site quality

Up to 38 build stages across eight build sections with typically about 20 stages reviewed per visit

Every available build stage scored from 1 to 6

Very Poor	Many significant non-compliances of NHBC Standards and/or Building Regulations - Imminent dangers to H&S apparent and/or almost inevitably resulting in a claim(s) > \pm 100K	1
Poor	Many minor non compliances of NHBC Standards and/or Building Regulations and/or some significant non-compliance - Imminent danger to H&S apparent and/or almost inevitably resulting in a claim(s) $> \pm 30$ K	2
Requires Improvement	Some minor non-compliance(s) with NHBC Standards and/or Building Regulations	3
Good	Meets NHBC Standards & Building Regulations	4
Very Good	In addition to 4 - some extra attention to detail over and above minimum requirements	5
Outstanding	In addition to 4 - much of work seen can't be improved upon	6

Contents page includes the score for each reviewed build stages





Construction Quality Reviews

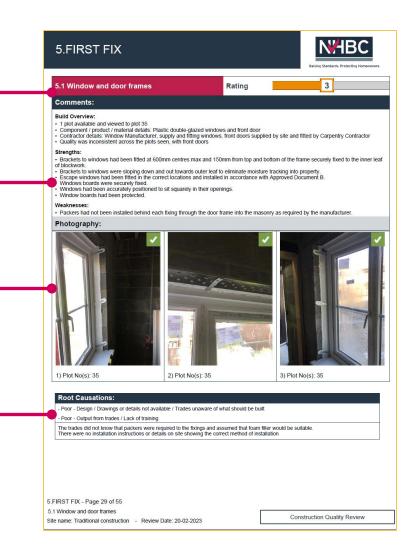
Independent, expert help on site quality

Individual pages for each build stage

Build overview with any strengths and/or weaknesses highlighted

Photographs, drawings and other supporting images. With plot reference(s) and a clear indication if observed work is right or wrong

Summary root causations, with more details of findings from the review





Construction Quality Root Causations







CQR UK Regional Update

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Results compared to UK regions ranked based on average scores

Rank ¹	Builder	2022			2021	2020	Trend
		(58003 Stages)		ges)	(50219 Stages)	(42044 Stages)	(Left to right)
	Industry	4.55		0.13	4.42	4.28	••
1	West Midlands	4.67		0.16	4.51	4.49	• • •
2	Yorkshire and The Humber	4.63		0.00	4.63	4.43	• • • •
3	South West	4.57		0.23	4.34	4.20	• • • •
4	Scotland	4.57		0.21	4.36	4.07	
5	Wales	4.57		0.23	4.34	4.48	••
6	East Midlands	4.56		0.05	4.51	4.43	••
7	North East	4.53		0.00	4.52	4.48	••
8	East of England	4.53		0.12	4.40	4.21	
9	South East	4.52		0.24	4.28	4.13	• • • •
10	London	4.52		0.03	4.49	4.47	• • • • •
11	North West	4.50	(0.02	4.47	4.30	• • •
12	Northern Ireland	3.99	-	-0.19	4.17	4.01	



CQRs

2022 results across the UK

		2022			2021	Movement	
Rank	Build stage	Score variance	Build stages	Average scores	Average scores	Change since last period*	Trend (Left to right)
38	4.4 Ventilation, underfelt and insulation		1344	3.98	3.90	0.08	••
37	3.4 DPCs and trays		2227	4.03	3.93	0.11	••
36	3.3 Cavities, insulation and soundproofing		2468	4.08	4.01	0.07	••
35	3.8 Balconies including fixings and weather proofing		89	4.12	4.09	0.03	• • •
34	5.7 Plaster and dry lining		1288	4.14	4.05	0.09	••
33	3.7 Lintels, beams and other structural elements		2000	4.17	3.96	0.21	••
32	4.3 Flat roof coverings		69	4.23	4.28	-0.05	• • •
31	2.2 Waterproofing and ventilation		1528	4.24	4.06	0.18	• • • •
30	2.4 Ground floor		1681	4.24	4.16	0.08	• • • •
29	4.2 Pitched roof coverings		1190	4.28	4.06	0.22	• • • •
5	5.8 Fire stopping (First fix)		283	4.87	4.55	0.32	
4	6.3 Joinery		2388	4.91	4.82	0.10	• • •
3	7.1 Internal finishes		2185	4.91	4.91	0.01	• • •
2	5.4 Services – plumbing		2342	4.97	4.83	0.14	• • •
1	7.2 Floor finishes		658	5.07	4.97	0.09	• • •
	Total		58003	4.55	4.42	0.13	••



CQRs

2022 results in Northern Ireland

Top focus areas observed from 2022, with comparison to UK wide figures were as follows, based on average score:

Top focus areas*	NI 2022	UK wide	Variance
External envelope including chimneys and flues	3.23	4.52	-1.29 🔻
Framing (including dummy chimneys)	3.26	4.40	-1.14 🔻
Lintels, beams and other structural elements	3.37	4.17	-0.80 🔻
DPCs and trays	3.50	4.03	-0.53 🔻
Cavities, insulation and soundproofing	3.61	4.08	-0.47 🔻



Inspection

2022 Northern Ireland Top Ten Reportable Items (RIs)

REPORTABLE ITEM	2022	2021	Moveme	nt on 2021
External masonry walls, Remove mortar debris from cavity areas, ties	830	561	269	A
Strip and trench fill foundations, Prepare trench bottom prior to concreting	614	469	145	A
Timber and concrete upper floors, Inadequate strutting between joists	575	544	31	A
External masonry walls, Joints not fully filled	245	230	15	A
Finishes and fitments, Unsatisfactory finishing's or workmanship to internal trim	235	258	-23	▼
Pitched roofs, Inadequate bracing and/or binders provided to trussed rafters	235	124	111	A
Doors, windows and glazing, Inadequate security provision	234	310	-76	▼
Internal services, Inadequate prevention of vermin entry to soil and waste systems	211	186	25	A
Internal walls, Inadequate partition support or fixing	208	129	79	A
Painting and decorating, Unsatisfactory finish of completed work	200	210	-10	▼
Overall	9977	9528	449	4



NI Inspection Common Reportable Items (RIs)

A significant proportion related to the external envelope

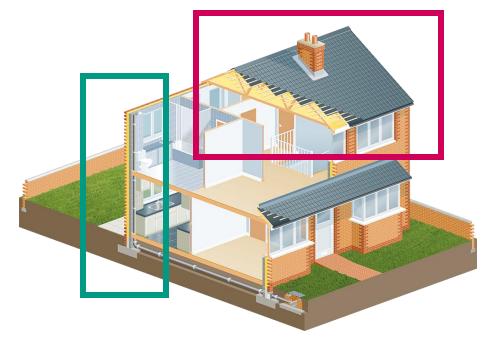
- Debris in cavities and on wall ties
- Incorrect, or missing cavity trays
- Joints not fully filled
- Inadequate weep holes cavity barriers and fire stopping
- Breather membrane and vapour control

Within roofs

Inadequate bracing

- Fire stopping
- Spandrel panels







CQRs

2022 results in Northern Ireland

	2022		2021		Industry		
Build stage	Build stages	Average scores	Average scores	Change since last period*	Positive scores	Difference vs region	Score variance
7.1 Internal finishes	34	4.59	4.68	-0.09	4.91	-0.33	
6.3 Joinery	36	4.58	4.81	-0.22	4.91	-0.33	
7.2 Floor finishes	31	4.48	4.61	-0.12	5.07	-0.58	
5.1 Window and door frames	41	4.49	4.90	-0.41	4.71	-0.22	
2.4 Ground floor	22	4.50	4.56	-0.06	4.24	0.26	
5.7 Plaster and dry lining	25	3.64	3.31	0.33	4.14	-0.50	
3.3 Cavities, insulation and soundproofing	33	3.61	3.46	0.15	4.08	-0.47	
3.4 DPCs and trays	22	3.50	3.78	-0.28	4.03	-0.53	
2.5 Drainage (internal and external)	12	3.50	3.62	-0.12	4.73	-1.23	
3.7 Lintels, beams and other structural elements	38	3.37	3.52	-0.15	4.17	-0.80	
2.1 Walls and columns	16	3.31	3.50	-0.19	4.51	-1.20	
4.1 Framing (including dummy chimneys)	34	3.26	3.87	-0.60	4.40	-1.13	
3.2 External envelope including chimneys and flues	43	3.23	3.86	-0.63	4.52	-1.29	
2.3 Sub-floor services and service entries	6	3.17	4.00	-0.83	4.59	-1.43	
5.8 Fire stopping (First fix)	1	2.00	5.00	-3.00	4.87	-2.87	
Total	826	3.99	4.17	-0.19	4.55	-0.56	



Opportunities for improvement





CONSTRUCTION QUALITY: Team Work



Invest the same in 'Quality' as Health & Safety'

•••• ••• ... ••• ... •••









Talk to us today about how our services can help you raise standards.

Linda Flynn MCIOB MCABE

lflynn@nhbc.co.uk

Mobile: 07739 877380

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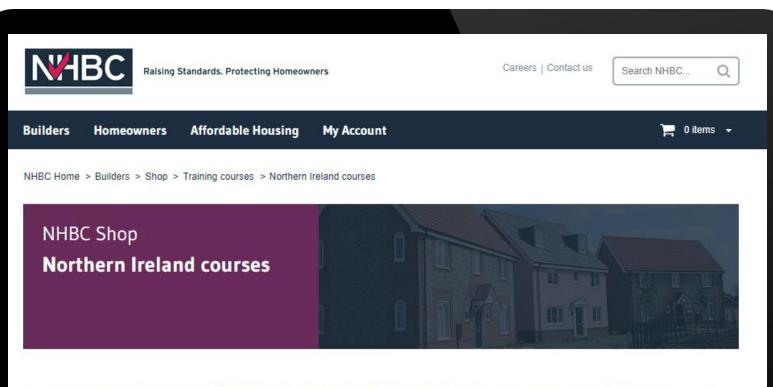
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