

Welcome to Module 4 – Design and Development of a Robust Detail

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Module 4 Contents

This module will cover the following topics:

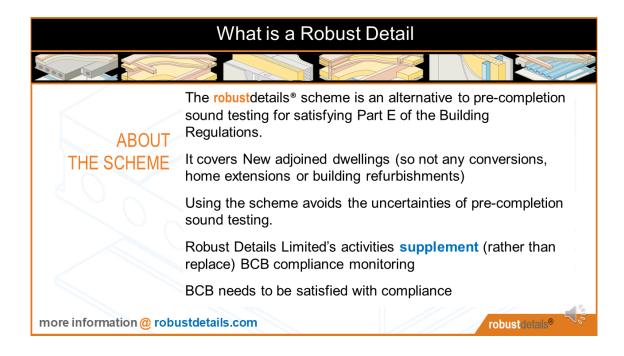
- What is a Robust Detail
- Design of the Handbook
- · Choosing and registering Robust Details for your Site
- · Checklists and Annex guidance
- Pathway to candidate detail



This Module will cover the following topics

- What is a Robust Detail
- Design of the Handbook
- · Choosing and registering Robust Details for your Site
- Checklists and Annex guidance
- Pathway to candidate detail

ditional notes:			



The scheme can be used as an alternative to Pre-completion sound testing between new adjoined dwellings only – so no conversions, extensions; and also not student accommodation or care homes unless they are categorised as flats under Part B. It obviously covers Part E in England and Wales, but the same scheme can be used in Northern Ireland, as they have the same performance standards.

There's a separate scheme for Scotland, as they have much higher standards – to give an idea, there are: 72 Details for E&W and 13 for Scotland.

This is a complementary service, so building control still need to go to site to the checks as they would for any other aspect.

We do go to site, but this is only to check that the Details are performing and the scheme remains fit for purpose.

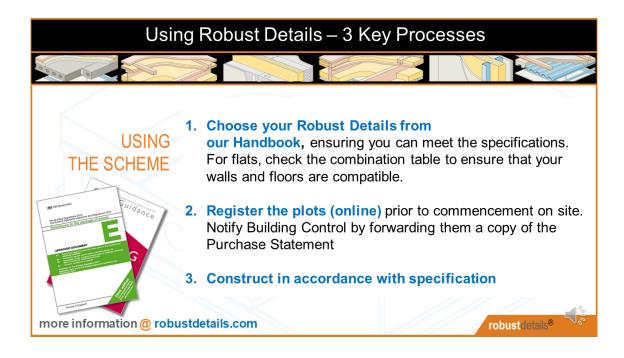
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While on site we can do a	a bit of knowledge transfer,	so we can tell the	builder what
he needs to do to comply	with the Detail, but		

We are not licenced or authorised to check for Building Regulations - it is still very much the job of building control to check compliance, and by that I mean that the plots have been registered; and the construction meets the specification

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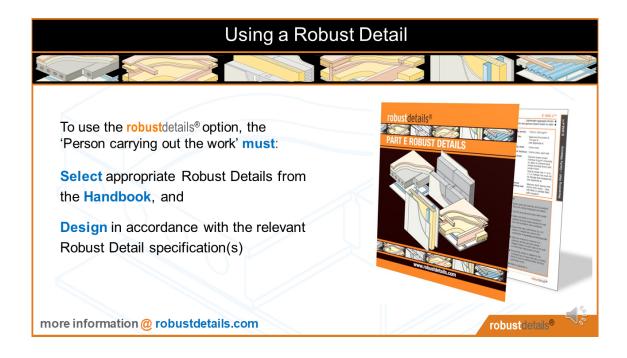


So the person using the scheme needs to: Select an appropriate Robust Detail, ensuring that all the specifications can be met; and include these in the design drawings

Then they need to register the plots with Robust Details and use the registration documents to notify building control before work starts on site

And finally, ensure that on-site, the construction is in accordance with the robustdetails specifications.

Slide 5

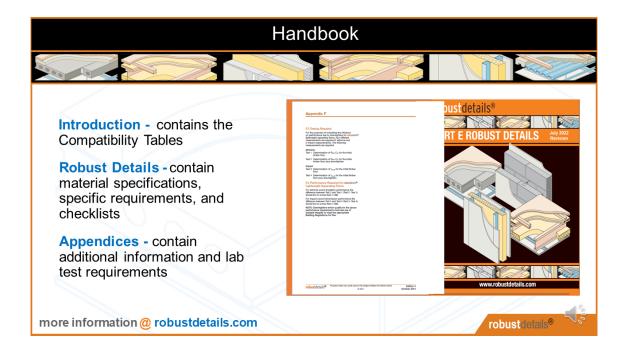


OK, so we said you need to reference the Handbook in order to select a Detail and to see the specifications

So let's look at the Handbook in a bit more "detail"

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Slide 6



Explanation of the slides when going through the animation – see recording

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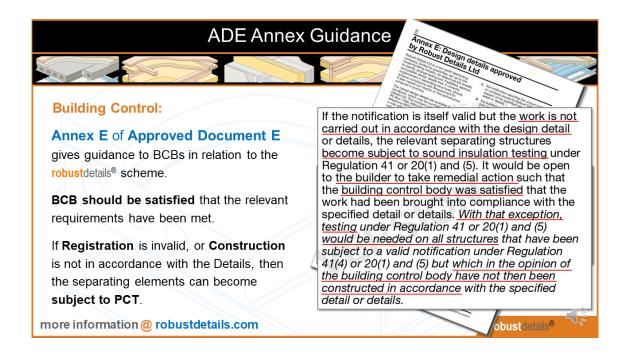
We also said about registering, So let's look at the registration documents:

Purchase statement is the only mandatory scheme document, as it gives proof of registration – copy to BCB, so they can schedule inspections

Ideally, building control would be on site seeing everything – but if this is not possible, they can ask the builder to complete the Compliance Certificate to declare they've built in accordance with the Detail

The Checklist lists all the critical items, and is really for site to check that these are in place – but again, building control might ask for it as evidence.

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That's the registration side of things, now lets look at the Approved Documents. Annex E, at the end of ADE explains how the scheme fits in with Building Regulations; and identifies the responsibilities

We mentioned earlier that builders need to notify building control before work starts on site – this is so the whole construction can be inspected

If notification is late, the BCB won't necessarily know what has been constructed – so they can ask for a test to prove the performance.

If the BCB is confident that what has been built meets the RD spec, they could accept the late registration.

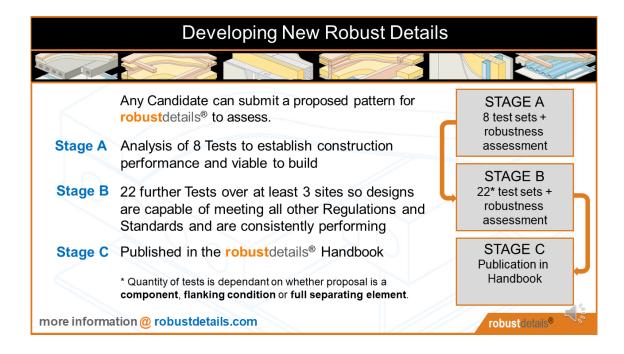
If the construction doesn't match a RD specification, then the BCB can ask for a test; or if there is only a minor deviation, they could ask for remediation to bring it back to the spec.

If this cannot been done to satisfaction, all separating elements may need testing. Additional notes:

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Slide 9



So how do new Robust Details get developed.

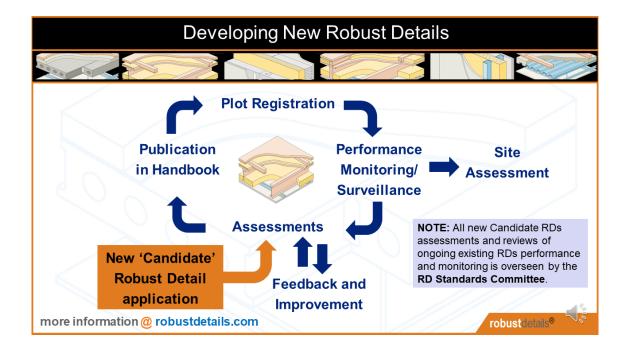
The assessment and approval of a new Robust Detail is based on 30 tests conducted on real developments, and is done in 3 stages:

Stage A looks at the first 8 tests to see that the construction is capable of hitting the performance standards; and that it is not over-complicated to build. If successful, it goes on to **Stage B** which checks the its ability to consistently hit the performance when subject to different site conditions and variations in workmanship.

Then if it gets through that assessment, it can be published in the Handbook as a new Robust Detail which is **Stage C** .

An assessed benefit testing on real sites is so the designs can stand up to the scrutiny of other Regulations and standards

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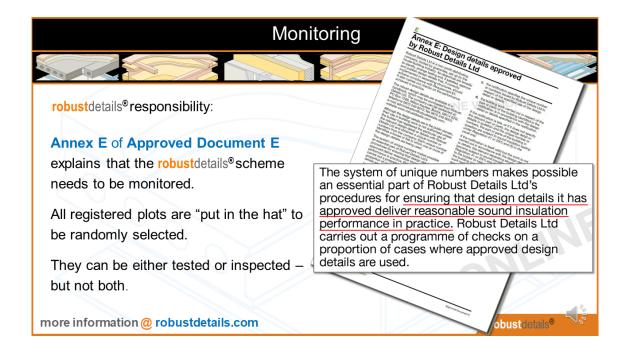


So looking at the whole picture, we can see where the new Details come in...

Once published in the Handbook, they can be registered for use on sites.

To ensure they continue to perform i.e. out in the wild, we randomly pick registered plots for monitoring – we'll look at that in detail a bit later.

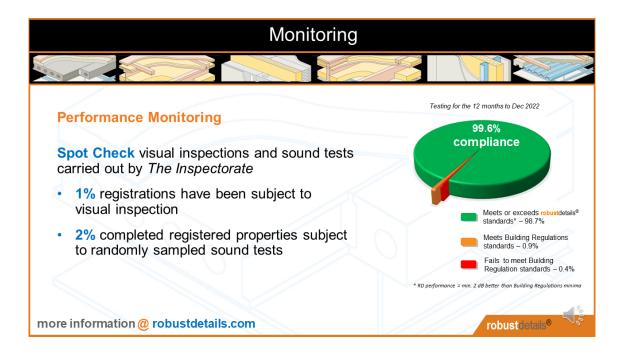
If the monitoring picks up any trends in poor performance, or the Detail being built consistently wrong, this is fed-back to the proposer; and is also borne in mind when similar new Details are proposed e.g. toolbox talks for screeded floors.



So back to Annex E, and now our responsibilities

Although we also visit site, this is to randomly sample registered plots check that the Details are performing as they should; and the scheme remains fit for purpose – we are not there to sign off for Building Regulations.

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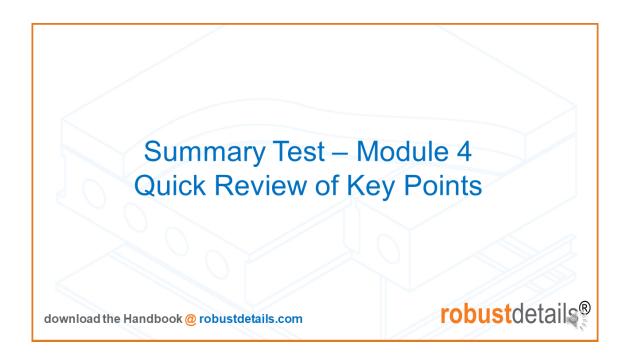


To do this, we have independent consultants who do the monitoring for us, and this comprises of an inspectorate team completing visual spot checks and random sound tests. This covers 1% of registrations for a visual check during build and 2% of registered plots have a random Sound Testing a the end of the build.

So this is considerably less than the 10% recommended for pre-completion sound testing

To put this into some sort of context, we've now sound tested around 23000 dwellings, and the levels of compliance achieved by the industry are very encouraging, as you can see.

Explain the colour system



Now for a quick TEST to recap on Module 4

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No.	Question
1	Does the Robust Detail (RD) route replace the building control function for the regulations?
2	What are the 3 key processes when using a Robust Detail?
3	If a site uses RD construction designs and has not registered the site, does the site still need to be sound insulation tested?
4	If a registered site undergoes an RD Inspection what does a 'green' outcome indicate?
5	What was the proportion of site inspections up till 2022 rated 'green'?
6	When developing a new 'candidate' RD or amending an existing RD how many stages are involved in the assessment and publication?
7	How many total tests are required for a new RD?
8	To have an early indication of test performance of the new candidate construction RD how many test should be submitted at the first Stage A?
9	What are the three registration documents provided to sites/companies that register with RD compliance route?
10	Who should sign the site RD checklists?

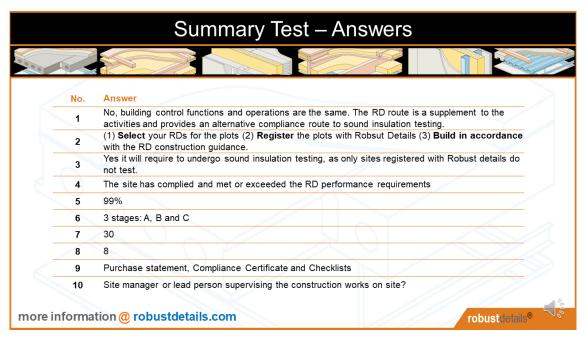
Here are 10 questions – you may wish to PAUSE the recording and test yourself against these questions.

Once you have answered all of them – the next slide provides the answers. In 10 seconds the slide will change so press pause now if you want to test yourself first.

Thank you for following Module 4.

Ad	ditional notes:			
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Slide 15



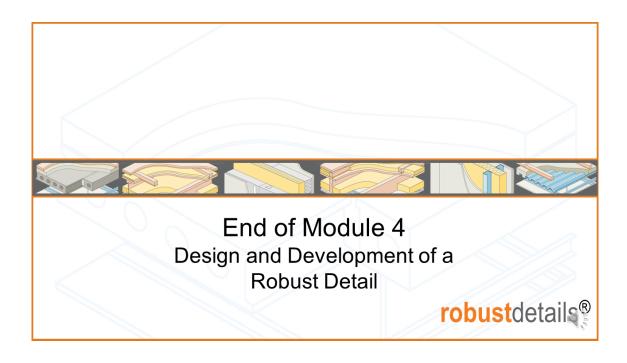
Here are the answer to Module 4's quick test. How did you do?

Thank you for following Module 4

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Additional notes:

Slide 16



End of Module 4 – Design and Development of a Robust Detail

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