

Building better homes with Registered Construction Details

A Build Aviator Guide for Builders



Registered Construction Details are a set of thermal designs that help to minimise heat loss through the weak points in the building envelope, known as **junctions**.

Bridging the gap between ‘as designed’ and ‘as built’ is a growing pressure for the house building industry.

The amendment of Part L 1A 2013 (section 3.9) cements this in regulation by stating that there should be ‘no reasonably avoidable thermal bridges’ at junctions. Registered Construction Details are a helpful and sometimes essential tool to ensure the energy performance of a building meets requirements and an aid to achieve building compliance.

What is an RCD?

Registered Construction Details (RCDs) are a set of thermal designs that help to minimise heat loss through the weak points in the building envelope, known as junctions.





What is a Construction Junction?

Junctions are those parts of a building where two or more elements meet. Junctions not only create thermal bridging, which can cause heat loss, they can also create cold spots.

Junctions can be found at the edge of a ground floor where it meets an exposed wall or an external wall where it runs into a roof, lintel or sill to a window or door jamb.

Why use an RCD?

RCDs are designed to illustrate how to minimise heat loss within junctions.

Using an RCD means that everyone in the build process can access a combination of specific details, good practice points and BR497 modeled Psi-values for use in the SAP 2012 software calculator.

It means SAP assessors, specifiers, designers and building control teams can see first hand the measures being taken to close the gaps in the building envelope.

FACT:

Using an RCD means SAP assessors, specifiers, designers and Building Control can see first hand the measures being taken to improve the junctions in the building envelope.

What are the benefits of using RCDs?

- LABC Construction Details have shown cost savings of as much as £1,200 on a 90m² unit*
- Build Aviator RCDs show details of specified products with proven buildability
- Consistent interpretation of building standards
- A fast track through building standards approvals
- Checks by the local authority will be confined to site related matters
- Demonstrates that a building, which would have previously failed to comply with Part L, can pass with no alteration to insulation levels or the need to use triple glazing or expensive renewable technologies

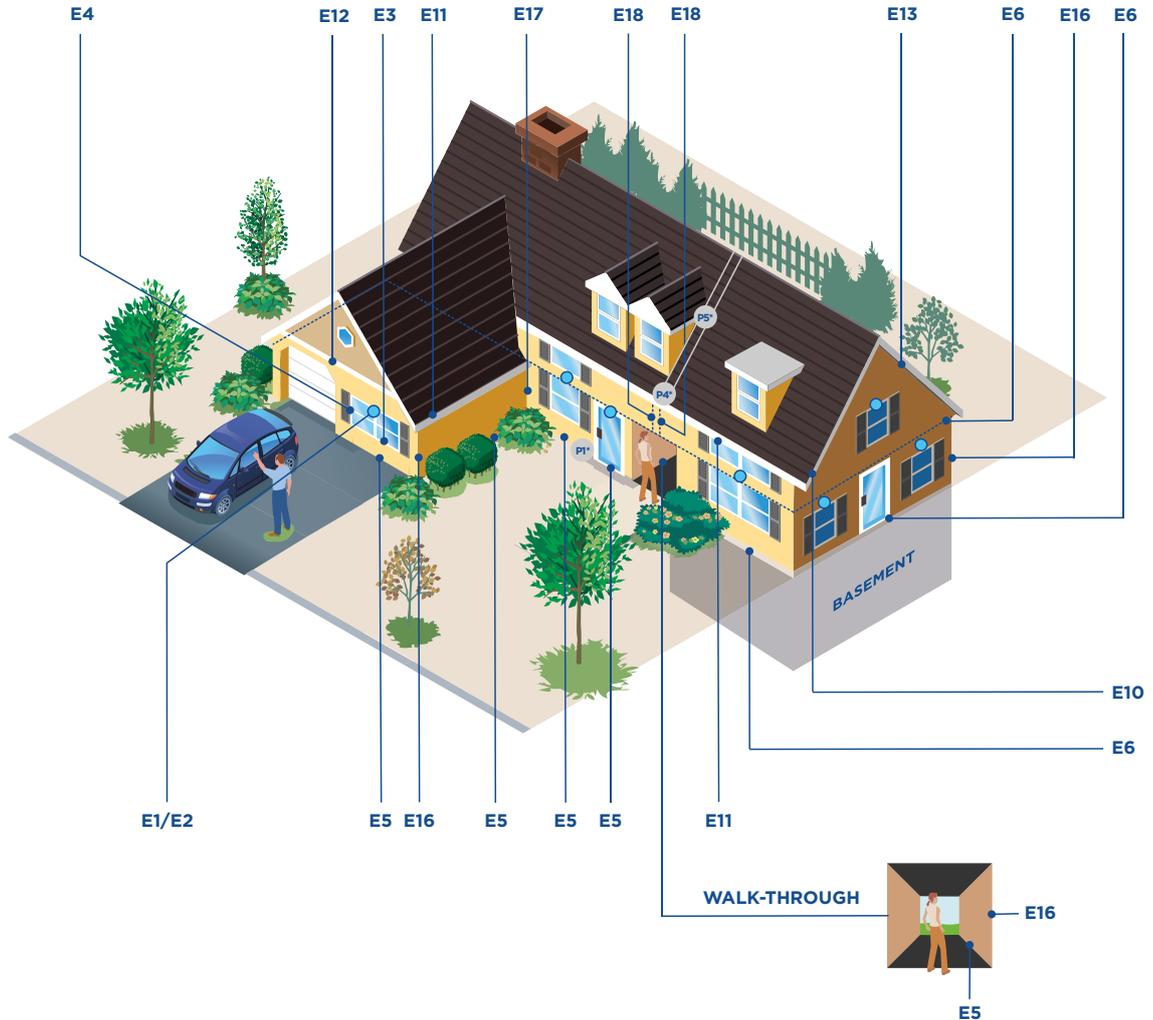
BENEFIT:

Fast track through building standards approvals by using an RCD.



**LABC Construction
Details have shown
cost savings of
as much as **£1,200**
on a **90m² unit***.**

Source: <https://www.labc.co.uk/news/new-registered-construction-details-will-help-you>



*

- P1: Floor**
- P4: Party Roof Junction at Flat Ceiling**
- P5: Party Roof Junction at Sloping Ceiling (Room in Roof)**

E7 (Not Shown in diagram)
 E7 is a floor junction used between dwellings such as in an apartment block or block of flats

How do RCDs prevent mould?

The rise in demand for airtight buildings has also resulted in the rise of issues with mould and condensation. RCDs are designs that help prevent this and give guidance and tips on how to avoid problems.

Is it okay to alter products generated by RCDs?

RCDs list proven products that meet specification for each junction. Deviating away from this because of cost or availability can cause serious discrepancies in the energy performance of the building and can result in non-compliance and re-testing.

How do I find the right RCD?

We will provide the RCDs associated with your project as standard with our SAP assessment service. To view the common junctions that can be affected by thermal bridging, take a look at our interactive house by visiting www.buildaviator.co.uk/registered-construction-details/.

If you'd like support regarding a specific junction in your project, please call 0121 328 9150.

The Build Aviator RCDs generate a list of branded products, which helps you get closer to bridging the gap between 'As Designed' and 'As Built'.





Contact us.

Visit the Build Aviator website www.buildaviator.co.uk

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