



Structural Engineers

The role of the structural engineer is a key component in the construction process.

Structural engineering is concerned with the design and physical integrity of your building.

I will work alongside the Structural Engineer; where I focus on the appearance, shape, size and use of the building; and I generally have an idea how I would like the structural aspects of the project to be solved - it is the Structural Engineer who solves the technical structural problems in terms of design, size and location of the structural elements specifically - and they help me achieve my vision for the project.

What do structural engineers do?

Structural engineers have a strong grasp of physics, three-dimensional conceptual skills and creative problem solving.

Outside of an ability to apply principles of mechanics, mathematics and physics to construct safe, sustainable buildings, the roles and responsibilities of structural engineers include:

Design: Many structural engineers deal primarily in the design of structures - calculating the loads and stresses the construction will have to safely withstand. Structural engineers should be able to factor in the different qualities and strengths delivered by a range of building materials, and understand how to incorporate support beams, columns and foundations.

Investigation: Before work can begin, structural engineers are involved in the investigation and survey of build sites to determine the suitability of the earth for the requirements of the upcoming project.

Inspection & Certification: During construction, the Structural Engineer ensures the building is in accordance with his/her drawings, details & specifications and is in accordance with the Building Regulations. Generally when I work as Assigned Certifier (under SI No.9 of 2014), the Structural Engineer will inspect and certify the works and building as Ancillary Certifiers.

In Ireland, for the construction projects I undertake, the Structural Engineer should be Chartered with Engineers Ireland, you can check whether your Engineer is Chartered using the link below:

<http://www.engineersireland.ie/membership/search-members.aspx>



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