

Expert Structural Services



4site is a leading independent specialist consultancy and professional services company focussed predominantly on fixed and mobile telecommunications networks. 4site was founded in 2002 and continues to grow year on year with offices in Limerick, Dublin and Reading.

At 4site we pride ourselves on providing a highly professional tailored service to meet even the most demanding of standards. We deliver these at competitive rates with a strong emphasis on quality, without compromise. Our health and safety record is exemplary and has been presented to more than one Tier 1 mobile operators' Technical Boards as the standard to meet. 4Site is EN ISO 9001:2008 (Quality) and OHSAS 18001:2007 accredited and operates successfully throughout the UK and Ireland on a wide variety of projects.

Services

- Site Acquisition
- Planning
- Design
- Technical Solutions
- Transmission
- Management

4site has grown rapidly over the last 5 years and has developed a wide range of services that we provide in a modular and connected architecture. This is particularly appropriate to the telecoms sector with its ever changing diversity of scope, requirements and direction. 4site is very capable of offering these modules



either as a complete package, tailored as necessary, or as standalone work activities depending on the requirement.

Structural Division

4site has established a strong in-house structural team of Chartered, Masters & Degree qualified engineers with decades of experience. The specialist program MStower is used to perform detailed structural analysis of lattice towers, monopoles, guyed masts and stayed poles. 4Site also utilises the advanced 3D FEM based structural modelling suite of programs MasterSeries to verify bespoke structures and all rooftop scenarios.

On the recent Vodafone Ireland SRAN upgrade (GSM & UMTS) and LTE rollout 4site, as lead design consultant, was responsible for the structural assessment of in excess of 1400 sites; of which 550 GDC's were completed internally; approximately 200 3rd party GDC's were conducted with the remainder certified by our own engineers.

Unrivalled technical support

Due to our close ties with steel fabricators, tower manufacturers, piling contractors, geotechnical engineers and other industry experts, we are also able to offer clients support across a range of structural and civil engineering disciplines providing bespoke solutions tailored to fit any requirements.

All personnel are appropriately trained and certified and highly experienced.

UK Structures

4site has modeled many of the common structures deployed in the UK, including but not limited to those supplied by the manufacturers below.

Support structures within this list can be accurately analysed to current industry standards by our in-house team without need for costly climb-down surveys, ie desktop analysis.

ADC | Alifabs | Balfour Beatty | CU Phosco
Dynamic Concepts | EVE (Babcock) | FLI | MTA
| Swann

Structural Services Include...

- Full structural climb-down surveys
- Modelling and static analysis using MS Tower
- Assessment of rooftop and support steelwork using MasterSeries
- Strengthening/re-engineering solutions
- Remedial/rectification design
- Foundation analysis and design/enhancement
- Piling design (including screw-piles & grillages)
- Geotechnical investigations and interpretation
- Invasive surveys/investigative work
- Steel grade testing
- Pull-out testing of anchors, bolt torquing and stay
- tension testing
- Condition reports/structure assessment
- Tailor-made specifications/maintenance programs
- Independent consultancy/advisory services
- Expert witness services
- Steelwork design
- RC detailing

Contact us

Feel free to contact us anytime!



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