

web structures - information sheet no. 4

Web Structures "value engineering and design audit services" can embrace all or any combination of the following 3 aspects:

1. design audit to ensure "structural adequacy and safety": this basically covers our engineers performing a structural design check on the design previously carried out by the project structural consultants. our engineers' checking work will however be confined to safety aspects of the design only.

2. design audit to ensure "economy": this service is essentially a "value engineering service" which goes beyond the safety check mentioned in 1 above, and ensures that the proposed structural design achieves the parameters set for it with economy. issues like buildability, ease and speed of construction as well as effective and economic use of materials will be addressed, and worked into the structural design and drawings.

3. design audit to ensure "structural design sensitivity": this covers issues relating to the compatibility of the structural proposals with the architectural, interior-design, lighting, landscape, and other design aspects of the work. it ensures that the structural solutions and proposals are in keeping with the "design language and vocabulary" adopted by the architectural and other design consultants on the project

- the fees are highly "project specific", and depend on the type and extent of the audit required. it is however, our experience that invariably the design audit bears fruit to the project in cost and/or design efficiency terms. we are pleased to have a look at any specific projects you may have, and to let you have an indication of our fees for your preferred scope of work.

- projects with basements can particularly benefit from a structural design audit, as any reduction in the "structure zone" (for example from conversion of a "beam-slab system" to a "flat slab system") can multiply in benefits to the project from shallower overall excavation, temporary works, basement construction, possible dewatering works, etc.

