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physics and materials to
understand and predict how
structures support and resist self-***

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From Table A4 of BS8500-1 (Table
3.6, p39 of Design of Structural
Elements) , cover to all*

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reinforcement = 25 mm • Depth of slab Overall depth, $h = 170$ mm • Bending reinforcement Required area of main-1 steel, $A_s, req = 1085$ mm² m . Provide R16@150 ($A_s, prov = 11340$ mm² m) Required area of secondary steel = R10@150 ($A_s = 523$ mm² m⁻¹ > minimum

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of Structural Elements,
The results of this structural
analysis show that the originally***

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designed structure should be capable of carrying the additional 25psf load of an extensive green roof. The structure is significantly oversized for the expected load cases. This is likely the product of using standard member sizes (e.g. W24 beams and K6

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***The structural design of any
structure first involves establishing
the loading and other design***

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conditions, which must be supported by the structure and therefore must be considered in its design. This is followed by the analysis and computation of internal gross forces, (i.e. thrust, shear, bending moments and twisting moments),

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Description. Structural Elements
Design Manual is a manual on the
practical design of structural
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masonry, and steel. Practical guidance on the design of structural elements is provided in accordance with the appropriate British Standard or Code of Practice.

STRUCTURAL STEEL DESIGN AND

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CONSTRUCTION

Serviceability refers to the proper functioning of the structure as related to its appearance, maintainability, and durability under normal, or service load, conditions. Deflection, vibration, permanent deformation, cracking, and

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***corrosion are some design
considerations associated with
serviceability.***

115 - fao.org

***Structural Steel – the structural
elements that make up the frame
that are essential to supporting the***

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design loads, e.g. beams, columns, braces, plate, trusses, and fasteners. It does not include for example cables, ladders, chutes, grating, stairs, catwalks, handrails or ornamental metal.

8. STRUCTURAL ANALYSIS

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***Structural Design for Architecture.
of structure is that the horizontal
elements are subjected to bending-
type internal forces under the
action of gravitational load
(normally the primary load on an
architectural structure). This has
two consequences.***

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***Design of structural elements : to
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***Structural engineering is a sub-
discipline of civil engineering in
which structural engineers are
trained to design the 'bones and
muscles' that create the form and***

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***shape of man made structures.
Structural engineers need to
understand and calculate the
stability, strength and rigidity of
built structures for buildings [1] and
nonbuilding structures .***

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