

Technical Notes:

Structural elements are calculated and designed with following characteristics:

Foundation: Foundations are designed with:

- Concrete **C-25/30** ($f_{ck}=25000\text{kN/m}^2$) with safety factor $\gamma_c=1.5$
- Reinforcement **S460A** ($f_{yk}=460\text{N/mm}^2$) with safety factor $\gamma_s=1.15$

Concrete Walls & Columns: All walls & columns are designed with:

- Concrete **C-25/30** ($f_{ck}=25000\text{kN/m}^2$) with safety factor $\gamma_c=1.5$
- Reinforcement **S460A** ($f_{yk}=460\text{N/mm}^2$) with safety factor $\gamma_s=1.15$


Concrete Beams: Beams are designed with:


- Concrete **C-25/30** ($f_{ck}=25000\text{kN/m}^2$) with safety factor $\gamma_c=1.5$
- Reinforcement **S460A** ($f_{yk}=460\text{N/mm}^2$) with safety factor $\gamma_s=1.15$

Concrete Slab: Slabs are designed with:

- Concrete **C-25/30** ($f_{ck}=25000\text{kN/m}^2$) with safety factor $\gamma_c=1.5$
- Reinforcement **S460A** ($f_{yk}=460\text{N/mm}^2$) with safety factor $\gamma_s=1.15$

GUIDELINES
Truss RHS, Column HEA200
End Plate
Dimensions 400x400 mm
Thickness 2x210 mm
Steel type Fe430
Bolts
Diameter Ø20 mm
Class Bolt 5.6
Hole tolerance 0.1 mm
Welding
Minimum Thickness 19 mm
Unless otherwise prescribed, all weldings in joints shall be full penetration or double fillet, wide not less than the thickness of the members being connected.

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	Name		
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Client	Ministry of Environment and Energy 		
Project Title	Consultancy Services for Feasibility Study for an Integrated Solid Waste Management System for Zone III (including Greater Malé) and Preparation of Engineering Design of the Regional Waste Management Facility at Thilafushi		
Design phase	Detailed Design Harbour Rehabilitation		
Contents	Vehicle shed - Main Frame		
Scale	1 : 10		
Drawing No.	5.2.3	Paper	A3