

P:\Apt2\13\68524\Bearing\Abfall\CAD\Drawings update 2018\180405_Admin Building\68524_WU_BA_General_Technical_Aspects_new_3-4-1_3-4-4.dwg;3.4.1

TECHNICAL SPECIFICATIONS

- 1.Concrete
- Class :C25/30
 - Type :Normal
 - Layer underneath :No
 - Water : Cement ratio :0.70
 - Samples :Cubic 15x15x15 cm
 - Vibration :Electric Vibrator

2.Cover Layer

- Slab Cover layer c=20 mm
- Beam: a)Down c=25 mm
b)Side c=25 mm
- Column c=30 mm

3.Reinforcement

a)Main Reinforcement

- Steel Class :S420
- Max dia. slab D(mm)= :14
- Max dia. beam D(mm)= :18
- Max dia. Column D(mm)= :18

aj)Stirrup

- Steel Class :S420
- Type :Normal
- S shaped :Angle 135 degree
- Stirrup dia. for main reinforcement:

- i): $\Phi 8$ D(mm)=32
- ii): $\Phi 10$ D(mm)=40
- iii): $\Phi 12$ D(mm)=48

Designer's Notes

1. Materials:

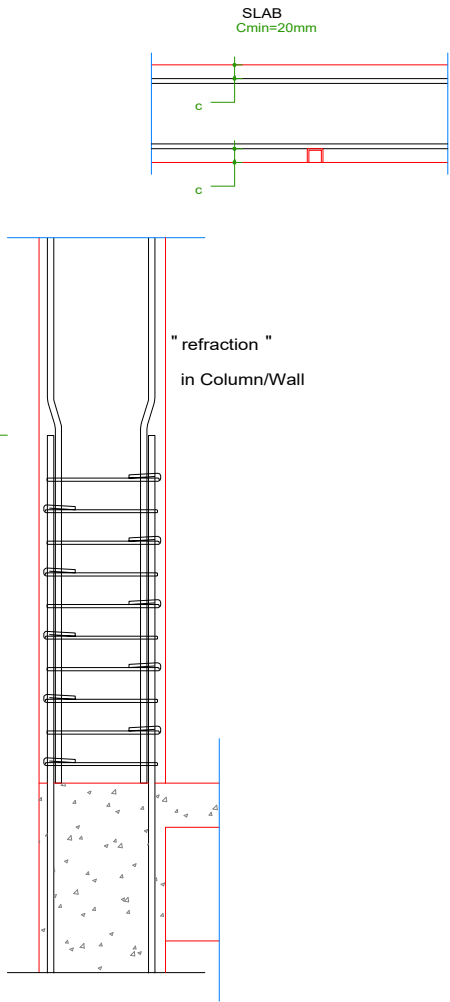
- Concrete : C25/30
- Steel : S420
- Stirrups : S420

2. Bearing pressure: 2.0Kg/cm2

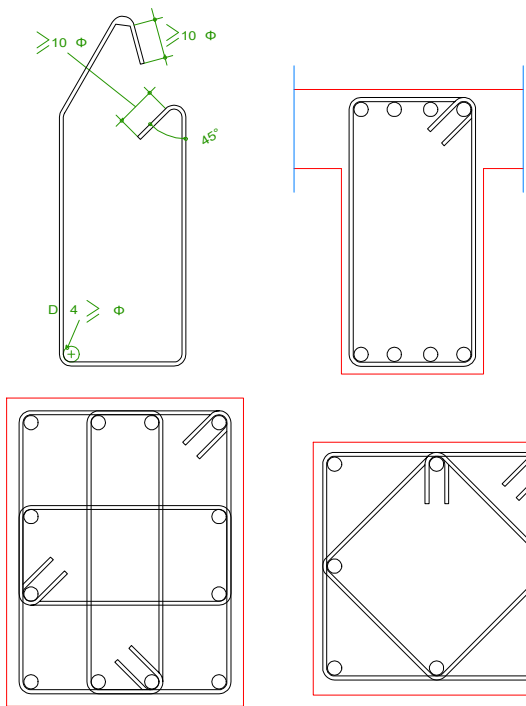
- 3. Seismic Coefficient
- PGA 0.30 g

TECHNICAL NOTES

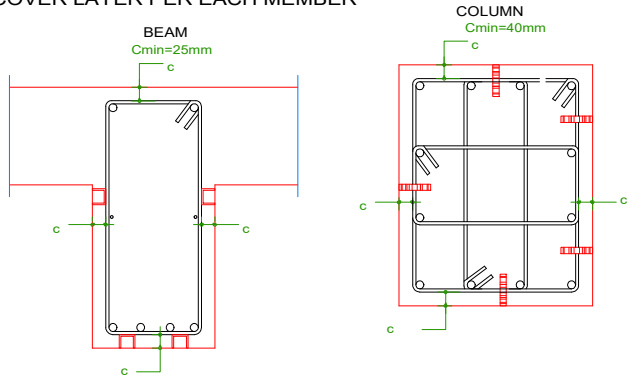
- 1- For any inconvenience in the design, the designer must be notified. Also attention must be given to the Technical Specifications.
- 2- anchorage length must be not less then 40ϕ .
- 3- Concrete ages should be rounder with $r=20\text{mm}$.
- 4- For average distances of the length given, the greater one should be taken into account.
- 5- Concrete cover for foundation should be not less then 50 mm, columns 30 mm and beams and slabs 25mm.
- 6- Earth bearing pressure is calculated to be 2kg/cm^2 . If this parameter can not be reached within the given foundation details, it should be graved deeper and the filling must be with gravel.
- 7- If the basement is composed of fine filling, a concrete layer must be built min 10cm placed over 10cm fine gravel. For Rock basements, the gravel layer is not required.
- 8- Earth works must be done with Excavator with a normal capacity (recommended 0.5m^3 capacity).
- 9- Earth works must be done with layers.
- 10- Escarp must be done 1:1.
- 11- If there is water on the foundations, water must be avoid with pumps or drainage canals.



STIRRUP DETAILS






TECHNICAL DETAILS
COVER LAYER PER EACH MEMBER



COLUMN ANCHORAGE LENGTH

Φ mm	l_o m
10	0.40
12	0.50
14	0.55
16	0.65
18	0.70
20	0.80
22	0.90

		Water Solutions Pvt Ltd 1st Floor, Ma.Fas eri, Ameenee Magu, Male' 20205, Republic of Maldives Tel: +960 334 1643 / +960 330 1643 Fax: +960 333 1643 Email: info@water-solutions.biz		Kocks Consult GmbH Stegemannstr. 32 - 38 D-56068 Koblenz Tel: +49 261 1302-0 Fax: +49 261 1302-400 Email: info@kocks-ing.de
		Name		
Designed	Qinami		April 2018	
Drafted	Qinami		April 2018	
Checked			April 2018	
Project No.	213 - 68524			

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	Administration Building - Technical Details			
Scale	1 : 50			
Drawing No.	3.4.1	Paper	A3	