# GENERAL NOTE

In cases of discrepancies between this general note and specific notes in the individual drawings, the latter shall prevail.

All measurements are stated in millimeters [mm]
All levels are in meters [m] acc. DVR90

## MATERIALS

Concrete

| | Enviromental effect | Cylinder strength $f_{ck}$ [MPa] | Max aggregate [mm] | Concrete cover [mm] | Excecution class | Water proofing | Exposure class |
|---|---|---|---|---|---|---|---|
| L-shaped walls | A | # | # | 30 | EXC2 | - | XC4, XS1, XF3, XA1 |
| Joint concrete | A | 35 | 32 | 30 | EXC2 | - | XC4, XS1, XF3, XA1 |

# To de determined by supplier. Minimum fck = 35 MPa.

Reinforcement

| Notation | Type | Acc. | Diameter (mm) | fyk (MPa) | ζ |
|---|---|---|---|---|---|
| Y | KS 550 TS | DS/EN 10080 | 6-32 | 550 | >0,8 |
| K | KS 500 TS | DS/EN 10080 | 6-32 | 500 | >0,8 |
| R | S235 JR | DS/EN 10025-2 | 5-16 | 235 | - |
| RFR | Stainless smooth steel | DS/SBC 13080 | 5-16 | 235 | - |
| RFK | Stainless ribbed steel | DS/SBC 13080 | 6-12 | 550 | >0,6 |

Welded reinforcement mesh: Acc. DS/SBS 10080; fyk = 550 MPa

## LOADS

Project basis and loads acc.: Eurocode 0: DS/EN 1990
Eurocode 1: DS/EN 1991-1 del 1-7

Above standards include the associated national Danish annexes (NA)
Reference to applied descriptions and drawings.

## EXECUTION

General
Prefabricated concrete elements must be delivered from certified supplier. Certification must be provided via Dansk Betonelementforening or similar certification.
Precast elements must be delivered from factory associated with inspection procedure BEK.
Supplier work shop drawings must be handed to designer for review prior to production start. Project material for review can be expected returned with comments within 5 week days.

Slab elements
Slab elements with pre-stressed reinforcement must de designed in such a way that 2 strands in every element can be cut in relation to drilling of holes.
It must be expected to perform holes/openings at slab edges for potential intersecting structures.
It must be expected to perform holes/openings at slab edges for potential erection dowels in wall elements.
Along free slab edges (at sky lights, stairways, landings etc.) the outermost channel and slab edge must be performed vertical.

Composite beams
Where slab thickness of slabs on each side of a 2-sided composite beam is different, a raised sub-support must be integrated in the composite beam.
Supplier can optimize/vary wall thickness of composite-beams as long as the capacity is documented efficient. Outer dimensions cannot be changed.
Unless otherwise specified, Ø150 holes i all end plates must be implemented, in order to splice the reinforcement inside the composite-beam.
Where the composite-beam has support above corrugated pipes, a Ø100 hole must be implemented in the bottom flange and top flange, in order to lead the vertical reinforcement in the corrugated pipes through the composite-beam.
Where the composite-beam has support on walls, 2xØ50 holes must be implemented in web plates in order to lead the joint-reinforcement through the composite-beam.
Supplier must implement and coordinate holes in web plates of composite-beams, in order to position the joint-reinforcement acc. deck plans and joint-reinforcement plans.
Fire-proofing of composite-beams acc. descriptions and drawings.

Wall elements
Unless otherwise specified, vertical wall connections must be performed indented with stirrups or wire-boxes and locking bars, so the shear capacity is minimum 30 kN/m.
Unless specified otherwise, wall elements must be supplied with bars Y8/300 along the top wall edge.
Around embedded corrugated pipes inside walls a special column reinforcement must be implemented acc. drawing.

Balcony elements
Top layer to be performed with slope away from the building.
Top layer to be performed with non-slip surface.
Elements must be prepared with connection items for the mounting of railings.

Recesses
Drilling of all holes (>Ø150mm) in slabs and walls must not be performed unless designer has approved it.
Recesses in walls for stair element dowels must be coordinated directly between the stair element supplier and the wall element supplier.
Recesses in walls for steel beams must be performed with a 20 mm air gap to the sides and along top side of steel beams. Along the support length a 10 mm steel plate must be embedded.
Installation openings and other openings that are later sealed, must be performed with internal rough surfaces.
Recesses and openings in walls for plumbing installations must be coordinated with the installation-contractor.

Electrical embedded parts
Electrical embedded parts must be coordinated with the electrical-contractor.

Concrete cover
Unless specified otherwise, the following cover/tolerances on reinforcement apply:
Passive enviromental exposure: 10 +/-5 mm
Moderate enviromental exposure: 20 +/-5 mm
Aggressive enviromental exposure: 30 +/-5 mm
Extra aggressive enviromental exposure: 40 +/-5 mm

For main reinforcement in beams and columns minimum 1,5 x diameter.

Reinforcement
The indicated reinforcement in the drawings must be perceived as principle for the reinforcement arrangement, and the supplier is responsible for the performance of detailed reinforcement drawings and bending lists for clarification of the reinforcement arrangement. Alternative reinforcement arrangements must be approved by the designer.

Anchoring and splice
Design of bond length and splice length acc. DS/EN 1992-1-1.

Element division
A proposal of division of slab- and wall-elements may be denoted in the drawings.
Final element division must be determined by the supplier unless stated otherwise in the drawings.

Chamfering
Outgoing corners in walls and columns must be chamfered with 15x15 mm. This does not apply to door and window edges, where the corners must be sharp-edged. Vertical wall connections must be performed sharp-edged.

Surfaces
Acc. descriptions and drawings.

## ASSEMBLY/MOUNTING

General
Precast concrete elements must be transported, managed and assembled/mounted in full accordance with supplier instructions.
Supplier must prepare a specific assembly/mounting instruction that must be handed to the assembly/mounting personal prior to production start.
Joint reinforcement to be position acc. reinforcement plans.
All recesses for installations and structures must be casted after assembly/mounting unless specified otherwise.

Drilling for holes
Holes for conveying of installations etc. in wall- and slab-elements is not allowed, unless designer approves.

Support lengths
Min. support length for hollow core slabs: 80 mm
Min. side support length for hollow core slabs: 20 mm
Min. support length for filigree slabs: 50 mm
Min. support length for element beams: 150 mm
Min. support length for steel beams: 100 mm

Tolerances
The following tolerance requirements apply unless more strict requirements are denoted in standards:

| | Normal control: | Enhanced control: |
|---|---|---|
| Horizontal position: | +/- 10 mm | +/- 5 mm |
| Vertical position: | +/- 10 mm | +/- 5 mm |
| Plumb, walls and columns: | +/- 3 mm on 2 m straight edge | +/- 3 mm on 2 m straight edge |

## LEGEND

Geometry
RB: Top level of concrete
FG: Top level of finished floor
OS: Top level of structure
US: Bottom level of structure
OK: Level of top edge, e.g. opening
UK: Level of bottom edge, e.g. opening
TK: Terrain level
FUK: Bottom level of foundation
CL: Center line
R: Radius
H: Height of object
T: Thickness of object
B: Width of object
L: Length of object
D: Depth of object
Ø: Diameter
DE: Deck element
VE: Wall element
FE: Facade element
BE: Beam element
SE: Column element
KP: Composite beam, 2-sided corbel support
KPE: Composite beam, 1-sided corbel support

Reinforcement
Yxx: Rebar, diameter xx mm
BR: In both ways
BS: At each face
OS: Top site
US: Bottom site
IM: At the middle
YS: At the outer site
IS: At the inner site
NS: At the nearest site
FS: At the furthest site
U-bjl: U-bar
L-bjl: L-bar
C-bjl: Clossed stirrup (C-bar)

: Reinforcement outlet
: Rebar
: Change in rebar

## SIGNATURES E.T.C

: Concrete in-situ, section
: Concrete element, section
: Blinding layer
: Raw concrete
: Existing structure
: Grouting
: Masonry
: Lightweight concrete blocks
: Steel
: Single lightweight concrete block
: Capillary breaking layer/ insulated layer
: Soft insulation
: Hard insulation
: Wood, cross section
: Glue laminated timber
: Hole
: Recess, depth (d) denoted
(X) : "similar princip as X"

: Visible contours
: Hidden contours
: Grid lines
: Faldlinie
: Joints
: Membrane
: Dilatation joint
: Foreberedt for hultagning
: Threaded bar in insert
: Chemical anchor or injected rebar
: Embedded corrugated pipe
: Sealant tape
(A) : Section similar to Section A

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|---|---|---|---|---|
| Project Name: Rise of the Pheonix | | | | |
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| 000 | First version for tender | RK | PR | 19-08-2024 |
| Rev. | Revision Description | Created by/Revised by | Approved by | Date of issue |
| AVISTA Green | | Status: For tender | Format: A1 | |
| | | Scale: - | Sheet: 1/1 | |
| Title: Precast concrete structures<br>General note | | ID No.: 0500-GN-K09-EX-003 | | Rev.: 000 |

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