

Connection plan: KHB-01-63300-SP-U0D.02

Connection plan: KHB-01-63300-SP-U0B.03

2F-1 M 1:50

2F-2 M 1:50

2F-3 M 1:50

2F-4 M 1:50

2F-5 M 1:50

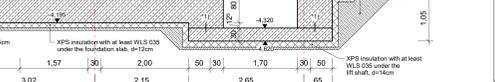
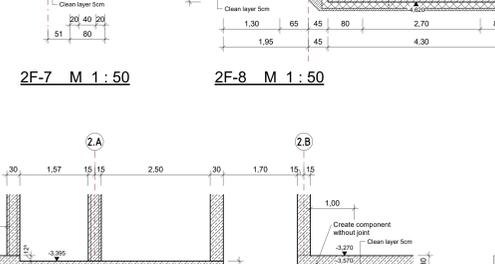
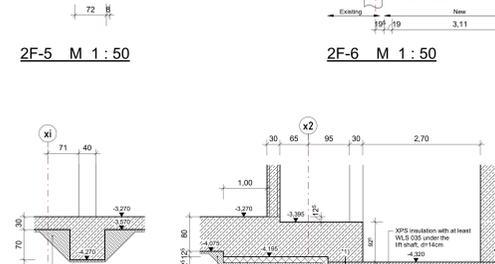
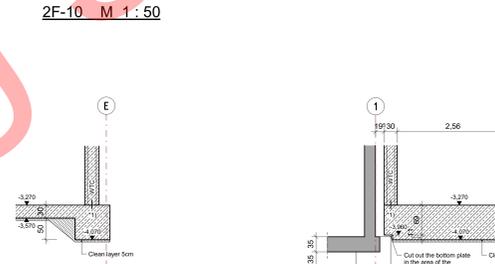
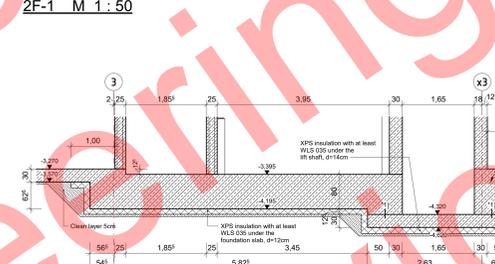
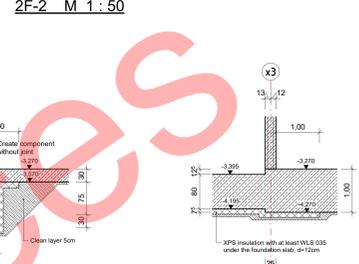
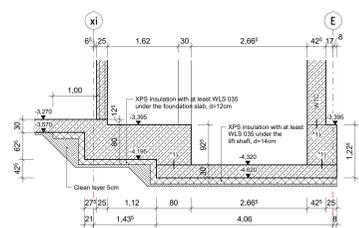
2F-6 M 1:50

2F-7 M 1:50

2F-8 M 1:50

2F-9 M 1:50

Concrete pouring section 1.1  
 Concrete pouring section 2  
 Concrete pouring section 3  
 Concrete pouring section 4



**General structural notes:**

- This plan is only valid in combination with the structural calculation and the execution plans of the architect.
- Any differences to the architect's or building services engineer's execution drawings must be submitted by the contractor to the site management for clarification before the start of construction.
- If necessary, the engineer must be informed.
- Type and quality of the concrete surfaces according to the architect's execution planning.
- Electrical conduit planning according to the architect's or MEP planning.
- Underground piping and lighting protection according to the planning of the MEP.
- Door and parapet heights are related to SSL.
- Built-in parts, e.g. for facade anchoring, elevators etc. and other requirements for the technical building equipment according to the technical project planning and their plans.
- The structural verification of formwork and scaffolding is carried out by the contractor. Increased stress on the slab formwork and scaffolding from intersecting structures must be taken into account. The formwork in these areas may only be stripped after sufficient load-bearing capacity of the overall construction.
- Necessary core drillings must be agreed with the structural engineer before work begins.
- Dimensions of ring reinforced concrete walls and columns that are not shown to be added to the formwork plan of the storey above.

**Notes on concrete structure**

- Support lengths of hidden beam >25cm, unless otherwise specified.
- The size of the concreting sections and the design of the construction joints are to be specified by the waterproofing planner or at the contractor's discretion.
- All construction joints that may be required, e.g. between beams and ceilings, beams and beams or foundations and bases are to be executed at least rough in accordance with BS 8102:2022.

**Notes on waterproofing structures**

- All reinforced concrete structures in contact with the ground must be constructed using the waterproofing construction method.
- Concrete and reinforced concrete work in accordance with BS EN 1992.
- Waterproof construction in accordance with BS 8102:2022.
- All bases and external wall openings must be watertight.
- All construction joints must be secured against pressing water in accordance with the waterproofing designer.
- The watertightness of the double cavity walls must be ensured in accordance with the waterproofing designer.

**Notes on the geotechnical report**

- Geotechnical report from \_\_\_\_\_

**Notes on the design water level**

- According to the foundation report, the design water level is 3.50 m above mean sea level in the final state and 2.50 m above mean sea level in the construction state.

**Boundary**

- All components are boundary proof (even without a tension proof pile connection) in the construction state, when the ceiling above the basement has been completed. Then the construction level must be completely finished off. Until completion of the basement floor the water level must be limited to +25 cm above the top floor level.

**Notes on the foundation**

- Foundations must be constructed with at least 5 cm lean concrete C8/10 and PE foil insulation must be arranged in accordance with the energy-saving certificate.
- All foundations must be frost-free and laid on natural ground.

**Surface finishing of the foundation slab:**

- The foundation slab of the cellar must be wing-smoothed and surface-finished.
- The floor of the underground garage is wing-smoothed and given an OS 8 surface protection with accompanying crack treatment or similar.
- Rising components such as columns and walls are given a minimum 50 cm high base coating consisting of a surface protection system OS 8 or similar. The DBV leaflet "Rising gangers and underground garages" must be observed in the latest edition.

**Legende**

	Cast-in-place reinforced concrete		Lean concrete
	Semi-precast concrete (representation only schematic)		Masonry
	Precast concrete		Slab opening
	Non-load-bearing concrete		Wall opening
	Rising reinforced concrete components		Struct. slab offset bottom
	Rising masonry walls		Struct. slab offset top
	Expanded metal formwork element with welded-in metal water stop		
	Changes to previous revision		

In classification / comments:

WO	Wall opening	SJ	Slab joint
WR	Wall Recess	WJ	Wall joint
SO	Slab opening	ISO	ISO
SR	Slab Recess	n/b	Non-load bearing
SB	Slab Beam	HBM	hidden beam
HBT	Rebar connection e.g. Haften HBT	DBM	deep beam
TO/DM	Top of Upstand Beam	HT	bearing length
PH	Parapet height	OE	outer edge

**Punching Rods in accordance with rebar planning**

The planning of the prefabricated stairs, balconies and parapets is carried out by the manufacturer according to the architect's plans.

The technical processing of WTC components, including the planning and detailing of all necessary joints and their system-compatible sealing in accordance with the requirements, is the responsibility of the manufacturer. The information on concrete grades and exposure classes must be checked with the waterproofing planner. All heights refer to zero level, unless otherwise stated. All dimensions are rough construction dimensions unless otherwise stated.

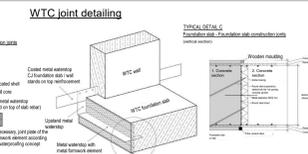
Pile loads see plan KHB-01-63300-SP-U0F.06-AF03

\*1) WTC - insulation in accordance WTC-guidance of WTC-planner.

Component	WTC concrete inspection class	Exposure classes										Concrete class	Concrete (min/max) cover		
		XC	XD	XS	XF	XF	XA	XM	WF	WF	WF				
<b>Roof slabs</b>		o	-	1	3	-	-	-	-	-	-	WF	C25/30	15	35
Roof terrace 1)	u	1	1	1	1	1	1	1	1	1	1	WF	C25/30	10	25
Roof terrace 2)	u	2	3	-	-	-	-	-	-	-	-	WF	C25/30	15	35
Courtyard slab 2)	u	x	2	2	2	2	2	2	2	2	2	WA	C35/45	15	55
Entrance area 1)	o	-	1	3	-	-	-	-	-	-	-	WA	C25/30	15	35
Entrance area 2)	u	1	1	1	1	1	1	1	1	1	1	WF	C25/30	10	25
Substructure 2)	u	x	2	2	2	2	2	2	2	2	2	WA	C35/45	15	55
Substructure 3)	u	1	3	1	1	1	1	1	1	1	1	WF	C25/30	10	35
<b>Floor slabs</b>		-	1	1	1	1	1	1	1	1	1	WO	C25/30	10	25
Indoor	u	-	1	1	1	1	1	1	1	1	1	WO	C25/30	10	25
Over underground car park below houses	u	-	1	1	1	1	1	1	1	1	1	WF	C25/30	10	25
<b>Walls</b>		-	1	1	1	1	1	1	1	1	1	WO	C25/30	10	25
Indoor	u	-	1	1	1	1	1	1	1	1	1	WO	C25/30	10	25
with ETICS	u	-	1	1	1	1	1	1	1	1	1	WF	C25/30	15	35
with cladding	u	-	1	3	-	-	-	-	-	-	-	WF	C25/30	15	35
Outdoor 5)	u	-	1	4	-	-	-	-	-	-	-	WF	C25/30	15	40
In contact with soil	u	x	2	2	2	2	2	2	2	2	2	WF	C35/45	15	55
Underground car park 4)	u	-	1	3	-	-	-	-	-	-	-	WF	C25/30	15	35
Ramp 4)	u	-	1	4	-	-	-	-	-	-	-	WF	C25/30	15	40
<b>Columns</b>		-	1	1	1	1	1	1	1	1	1	WO	C25/30	15	40
Indoor	u	-	1	1	1	1	1	1	1	1	1	WO	C25/30	10	25
Facades	u	-	1	3	-	-	-	-	-	-	-	WF	C25/30	15	35
In passageway 4)	u	-	1	4	-	-	-	-	-	-	-	WF	C25/30	15	40
In basement 4)	u	-	2	3	-	-	-	-	-	-	-	WF	C25/30	15	35
<b>Other elements</b>		-	2	3	-	-	-	-	-	-	-	WF	C25/30	15	35
Balconies	u	-	1	4	-	-	-	-	-	-	-	WF	C25/30	15	40
Stairs	u	-	1	1	1	1	1	1	1	1	1	WO	C25/30	10	25
<b>Foundation elements 6)</b>		-	2	2	-	-	-	-	-	-	-	WO	C35/45	15	35
Foundation	u	-	2	2	-	-	-	-	-	-	-	WF	C35/45	15	35
Foundation slab	u	x	2	3	1	1	1	1	1	1	1	WF	C35/45	15	35
Ramp foundation	u	x	2	3	1	1	1	1	1	1	1	WF	C35/45	15	35

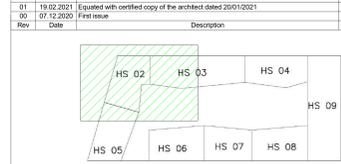
**Legende**

- Clued
- Unfinished
- Ground cover at least 30 cm
- with base protection
- without de-icing salt
- Clean layer



Plannummer

Project	Component	Account	Category	Floor	Service phase	Revision
01	19.02.2021	Equipped with certified copy of the archived dated 2001/2021				NHD
00	07.12.2020	First issue				NHD
Rev.	Date	Description				Prepared



Zero level ±0.00 = 5.095 over ASL

PROJECT

CLIENT

ARCHITECT

STRUCTURAL DESIGN (Plan view)

PLAN TYPE

DRAWING TITLE

Formwork Plan  
 Foundation - House 2 and 3a

PROJECT 19023 PROJECT MANAGEMENT TS DESIGNED NHD PAPER SIZE A4x1569 SCALE 1:50 DATE 15.11.2020 CHECKED TS