THE DETAILS OF THE PROJECT

OPEN UP THE SEMI-PUBLIC SPACE.  
A PLEA FOR A WORK & LIVE DWELLINGS IN AMSTERDAM

NICO LEFERINK GRADUATION STUDIO DWELLING 1534920
Overview
Meaning of This Book

This booklet gives you the main details of the building 466. These details are drawn on the 1:20 and 1:5 scale.

The facades are based on the configuration of the 446 building. There are 4 facade types which you can see on the left of this page. The facades are divided into 3 parts. These parts have strong relations to other parts in different facades.

- Part A-1,1 Related to C-1,2
- Part A-1,2 Related to C-1,3
- Part A-1,3 Related to D-1,3
- Part B-1,1 Related to B-1,3
- Part B-1,2 Related to D-1,2

The details in these parts have strong relations with an overall building system, which is why some of the details are the same in different configuration parts.
Building method
Building Method - Steps in the building process

01. Construction

The construction will be delivered by professionals. The construction elements will be also build by the professionals.

The construction consists out of a prefab (vuren) construction with fixation elements of steel.

03. Floor

When the wood construction is complete on each floor, prefabricated floors can easily be fixed to it.

04. Fixation

Wooden pins are fixed to the wood construction.

05. Own fabrication

To reduce the costs and stimulate social cohesion, there is an option to build a part of the facade by the dweller.

06. Window frames

Window frames can be fixed to the wall which are fabricated by the dweller.
07 - Window sill
After attaching the window frames, the windows will be finished with window sills.

08 - Inside installations
If all the window frames are detached to the inner facade, the inside of the rooms are ready to install technical components as floor heating or the kitchen.

09 - Prefab facade
In the meantime, the outer prefab facade will be attached by professionals to have more insulation and a proper wood layer.

10 - Fixation
The prefab facade is attached to the steel profiles of the main wood construction.

11 - Insulation
Insulation of cork will cover the last steel elements.

12 - Finishing
On top of the cork, there will be installed one more layer of wood for finishing all the details.
Part A 1,1 - 1 20 section overall view.
LEGENDA

I - Format: Isonometric (parallel)
II - Section: --
III - Case: Foundation, Floor & Facade

01 - Insulated foundation
02 - Combination Floor
03 - Prefab outer Facade
04 - Floorheating
05 - Inner wall system
Plinth
Multiplex 8mm
Rockwool 120mm
Multiplex 10mm
insulated studded panel
Finishing Layer 35mm

Aluminium profile 20*2mm
Scalene angle steel profile 150*75*11

LEGENDA
01 - Format: 1:5
02 - Section: Vertical
03 - Case: Floor & Facade
Vertical wooden strip 22x125mm
Vertical Sliding panel
HR++ glass
Window merbau
Adjustment profile
Merbau window sill 15mm
glasswool 150mm
Wood Loadbearing column 220x220mm

LEGENDA
01 - Fromat: 1:5
02 - Section: Horizontal
03 - Case: Window frame
Part A 1,2 - 1:20 section overall view.
Part A - 1,2, Detail Floor, Facade & Balcony

Merbau window sill

Window frame 114*76mm
Steel Cable 16mm
Multiplex layer 22mm
Steel strip

Steel plate
HEA100
Aluminium plate 2mm

PART A, 1, 2

Part A - 1, 2, Detail Floor, Facade & Balcony

LEGENDA

01 - Format: 1:5
02 - Section: Vertical
03 - Case: Balcony
Part A - 1,2, Detail Floor, Facade & Balcony

sawn hot-rolled steel profile 90*90*5

LEGENDA

01 - Format: 1:5
02 - Section: Horizontal
03 - Case: Window, Facade & Balcony
Part A - 1,2, Balcony Window Frame & Colum

- Adjusting profile
- Window frame 114*76mm opened to the outside window
- Wooden pin as connection to load-bearing construction
- Adjustment profile

**Legend**

01 - Format: 1:5
02 - Section: Horizontal
03 - Case: Window frame, Column
Part A 1,3 - 1:20 section overall view.
Part A - 1.3 , Detail Bay Window frame

- Adjustment profile
  - Merbau window sill 15mm
- HEA 100
- HR++ glass
- Angle Steel 40*40*5
- Rigid foam
- Aluminium plate 2mm
- Supported wood construction

**LEGENDA**

- 01 - Format: 1:5
- 02 - Section: vertical
- 03 - Frame of Bay window top
Part A - 1.3, Bay Window Frame

HEA 100
Steel strip

Steel profile 80*65*8mm
Aluminium profile 2mm

LEGENDA

01 - Format: 1:5
02 - Section: Vertical
03 - Case: Bay Window frame bottom
Part A - 1,3, Bay Window Frame

LEGENDA

01 - Format: 1:5
02 - Section: horizontal
03 - Case: Bay Window frame right

HR++ Glass
Window frame Merbau 114*76mm
Merbau Window Sill 15mm

hot rolled hollow steel profile 100*100*5
isosceles angles steel profile 40*40*5
Aluminium Plate 2mm

Steel pin
scalene angle steel 150*75*5
Part B - 1,1 & 1,2, Bay Window Frame

LEGENDA

01 - Format: 1:5
02 - Section: Vertical
03 - Case: Bay Window frame bottom-
Part B - 1,1 & 1,2, Window Frame

LEGENDA

01 - Format: 1:5
02 - Section: Vertical
03 - Case: Window Frame middle
Part B - 1,1 & 1,2, Window Frame

- Merbau window frame 139*76mm
- Merbau window sill 15mm
- HR++ glass
- Fixed window frame
- Adjustment profile
- Multiplex lath 22mm
- Steel angle profile 80*65*8mm

Legend:

01 - Format: 1:5
02 - Section: Vertical
03 - Case: Window Frame bottom
Part D 1,3 - 1 20 section overall view.
Part D - Bay Window,

LEGENDA

01 - Format: 1:5
02 - Section: Vertical
03 - Case: Bay Window Bottom
Adjustment block
Merbau window sill 15mm
Wooden capping shelf
Aluminium angle profile 20*20*2mm
Waterproof layer
Plasterboard 10mm
Glasswool
Plasterboard 10mm
Rockwool
Plasterboard+Finishlayer 10mm
Adjusting steel profile

01 - Format: 1:5
02 - Section: Vertical
03 - Case: Window Frame bottom
Part A, B, C, D - Roof, Windowframe

Solar Collector

Waterproof layer

Wooden

Merbau window sill 15mm

Window frame 114*76mm

HR++ Glass

LEGENDA

01 - Fromat: 1:5
02 - Section: Vertical
03 - Case: Window Frame top