AMSTERDAM PLAN 2040 IN MERKELBACH BUILDINGS

DESIGN PRODUCTS

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AMSTERDAM PLAN 2040 IN MERKELBACH BUILDINGS

Ground floor and surrounding
Floorplans - types of flats

Ground floor flats

Flat A
Area: 105 m²
Number of flats in one building: 3

Flat B
Area: 73 m²
Number of flats: 3
First floor flats

**Flat C**
Area: 28 m²  
Number of flats: 1

**Flat D**
Area: 35 m²  
Number of flats: 12

Second and third floor flats

**Flat E**
Area: 46 m²  
Number of flats: 38

**Flat F**
Area: 51 m²  
Number of flats: 1

**Flat G**
Area: 53 m²  
Number of flats: 24
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Section A-A

Section C-C

Street facade fragment
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THERMOMAS System
sandwich panel

External brick wall 100 mm (type of bricks: Waalformat WF 210x100x50)
Cavity 20 mm
Extruded Polystyrene insulation 130 mm
Load-bearing concrete layer 150 mm

prefabricated panels

Glass-fiber reinforced vinyl-ester connector
Embedded steel plate 145x10
Anchor screw
Bucket foil
Thermal insulation: URSA
XPS N-III-L-WOF 50 mm
Aluminium profile + anchor
Caulking: silicone + backer rod
Shim stack
URSA XPS N-III-L-WOF 90 mm

Loose steel plate 195x18

Expansion bolt installed prior to the concrete base

Wooden planks 10 mm
Concrete base 140 mm
Mineral wool Rockwool ROCKFLOOR 100 mm
PE foil

Detail B

Detail A
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Detail C1

Support reinforcement

Prefabricated concrete slab 200 mm

Elastomer (natural polyisoprene)

Detail C2

Detail C3
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