

Zeitschrift: IABSE structures = Constructions AIPC = IVBH Bauwerke
Band: 2 (1978)
Heft: C-3: Recent structures

Artikel: Edok-Eter Building, Athens (Greece)
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DOI: <https://doi.org/10.5169/seals-15084>

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2. Edok-Eter Building, Athens (Greece)

Owner: EDOK S.A. – ETER S.A., Athens
 Architect: J. Vikelas, Athens
 Structural Engineer: B.A. Vavaroutas, Athens
 Contractor: EDOK S.A. – ETER S.A.
 Construction Consultants: ALVERTIS-DIMOPOULOS S.A., Athens

Building Use:

Building Use:

Penthouse: mechanical floor
 Floors above ground level: offices
 1st Basement: conference hall, computer center, laboratories, restaurant
 2nd Basement: parking, mechanical and machine rooms
 3rd and 4th Basement: parking

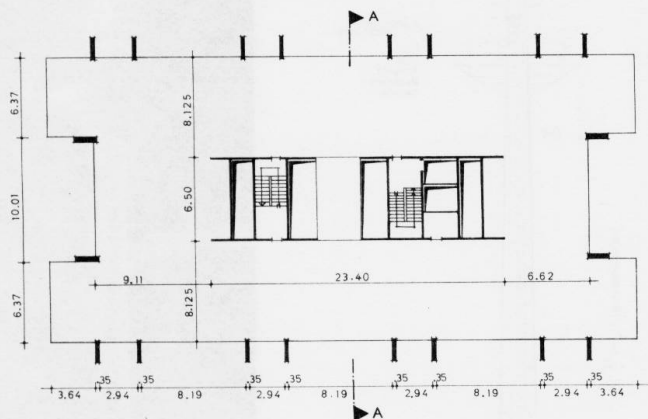
Volume and Area Data:

Floors above ground level: 13
 Building volume above ground level: 40'650 m³
 Total office area: 9'515 m²
 Floors under ground level: 4
 Building volume under ground level: 44'000 m³
 Parking area: 7'800 m²
 Recreation area above 1st basement roof: 2'100 m²

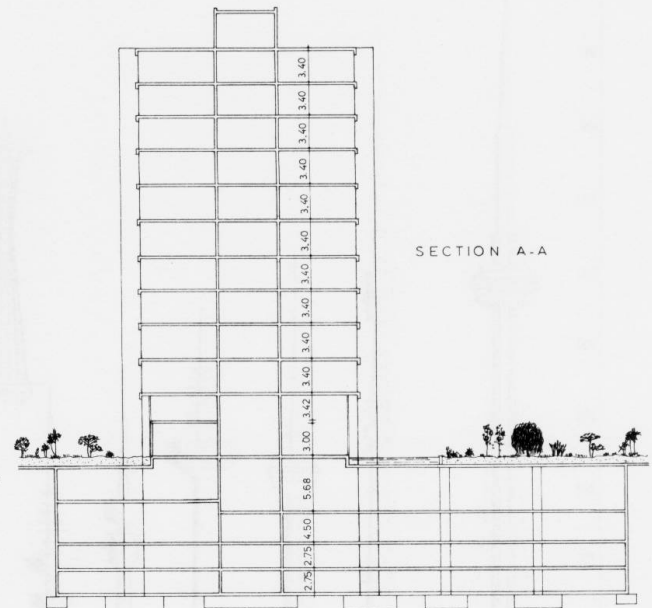
Material Used:

Concrete B300: 10'650 m³
 Concrete B450: 200 m³
 Reinforcing Steel 42/50: 950'000 kg
 Prestressing Steel 150/170: 12'000 kg

Construction time: 28 months



TYPICAL FLOOR



Introduction

This building is one of the last to be built with such a height because of the late height restriction in Athens. The Owner is a Group of Contracting Companies in Greece and abroad and the building will serve as its Headquarters. The free land space around the high-rise buildings is formed by the Owner as recreation area and has been given to public use.

Design and Construction

The fast track method has been used for the design and construction in order to minimize the construction time. The final structural design started one month before the start of the foundations. The core of the high-rise building has been slipformed in 15 days (62 m high). This is the first application of slipforming the core of a high-rise building in Greece (the AHL system has been used). The structure is constructed of in situ placed reinforced and prestressed concrete. The high-rise building slabs are flat waffle slabs; the basement slabs are combination of waffle and T-form slabs; all slabs are 40 cm high. Polypropylene moulds have been used throughout the slab construction. The 1st basement roof slab had considerable design problems due to the heavy loading of the recreation area and the transfer of the horizontal loading of the high-rise building at this level.

(B. Vavaroutas)

