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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:

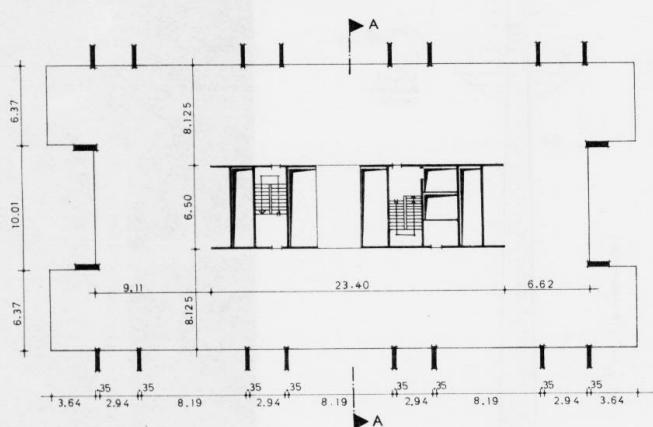
Concrete B300: 10'650 m³

Concrete B450: 200 m³

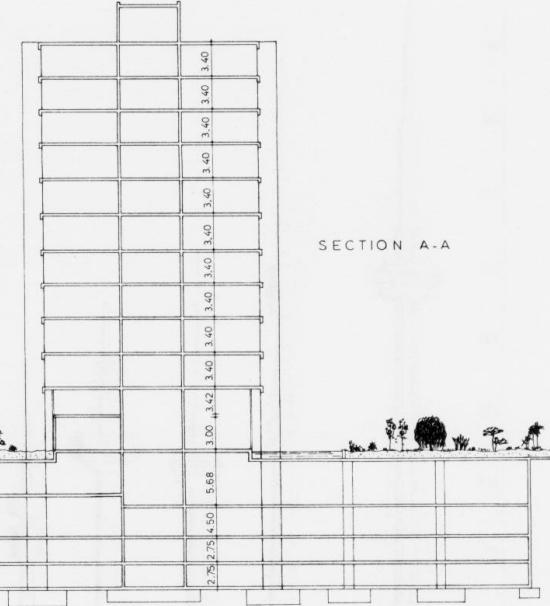
Reinforcing Steel 42/50: 950'000 kg

Prestressing Steel 150/170: 12'000 kg

Construction time: 28 months



TYPICAL FLOOR



SECTION A-A

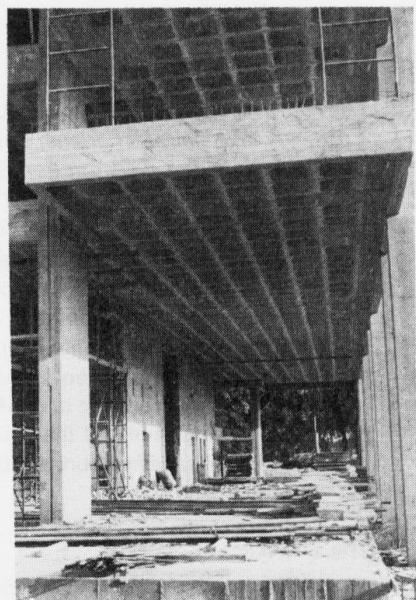
Introduction

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)



The main structure of the building is a rectangular frame of reinforced concrete columns and beams. The height of the columns is 12 m, and the width of the columns is 1.5 m. The height of the beams is 1.5 m, and the width of the beams is 1.5 m.

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