,,, Station Square Shopping Centre in Fuenlabrada

The Station Square Shopping Centre in Fuenlabrada has a surface area of approximately 200,000 m2. On plan, it is a five-storey semi-trapezoidal building with dimensions of 190.00m x 170.00m. The modulation of the structure is 8.00m x 8.00m for its basement floors and 16.00m x 8.00m for the storeys above ground level. The basement structure consists of a reinforced slab whilst for the storeys above ground level; it is composed of a pre-stressed slab with bonded post-tensioned four-stranded steel set in an oval duct. The reinforced slabs are 0.25m or 0.32m deep whilst the depth of the abacus-free pre-stressed ones is 0.40m. The pre-stressed steel is mainly distributed upon the columns. Most of the columns have a circular cross section and are made of reinforced concrete with diameters ranging between 0.50m to 1.20m.

On one side of the building, there are two twelve-storey towers above ground level, which have an almost rectangular floor plan of $47.50m \times 13.10m$. The structure is composed of a 0.32m deep pre-stressed slab with bonded four-stranded post-tensioned steel set in an oval duct and a column modulation of 12.00m x 8.00m.

This building was designed to be joint-free.



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