**PROJECT DESCRIPTION**

Hospital, Floor area = 177,000 m²

The owner wished to reduce interstory drift and floor displacements/accelerations.

The solution used DAMPTECH’s Friction Bracing:
- 426 dampers (12 Braced Frames at each floor) - 500 kN, 800 kN and 1000 kN.

DampTech dampers are used to achieve superior performance, minimizing drift and accelerations, with lower load demand leading to savings on steel superstructure. Typically owners see a reduction in the steel required, with material savings of 20-35 kg/m² compared to a traditional moment frame.

In this case displacements were reduced to 60% of Code Requirements (1.2% instead of 2% interstory drift) Lower displacements corresponded to lower floor accelerations. In addition, savings of 20% steel were achieved compared to a traditional moment frame: 6,600 tons savings, with a final weight of the steel skeleton of 28,000 tons.

**DAMPED STRUCTURAL BRACING**

**Hospitals and Highrise Structures**

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