

# Study on the Behaviour of Thin Plate Structures

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**Abstract:** *Thin plate structures are widely used nowadays for industrial, commercial, and institutional structures. The main drawback is that the slab fails under punching shear. The main reason is that the thickness of the slab is very less as it cannot withstand heavy loads. Punching shear failure can be avoided by providing drop panel and column capital. But in case of thin plate structures providing drop panels will not be recommended. To prevent punching shear failure different trials have been approached for a model structure with seismic load. The inference from the behaviour of the structure is learned and further developments are concluded.*

**Keywords:** Punching shear, Thin plates, Seismic load

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