



Seismic Design of Floor Diaphragms in Post-Tensioned Timber Buildings

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Author: Moroder, Daniel
Sarti, Francesco
Palermo, Alessandro
Pampanin, Stefano
Buchanan, Andrew

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Summary:

Seismic damage to floor diaphragms because of displacement incompatibilities are a point of concern in many structures. This paper studies the behaviour of timber diaphragms subjected to frame elongation and rocking of walls in post-tensioned timber buildings. Experimental tests with special connection details between floor panels and between the diaphragm and the lateral load resisting system show that floor damage in severe earthquakes can be avoided by designing for flexibility and proper connection detailing

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Resource Link

http://schr.ws/hosted_files/wcte2014/68/ABS426_Moroder_web.pdf