**EXPERIMENTAL STUDY OF VARIABLE STIFFNESS SEISMIC ISOLATOR OF SERIES CONNECTION**

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**ABSTRACT**

Laminated bearing rubber is one of the key factors of seismic-isolation technology，this paper developed a series of variable stiffness laminated bearing rubber. In the initial stages，the isolators have smaller horizontal stiffness (less than the minimum shear stiffness of the combined isolator)，this variable stiffness device will play its role, when the horizontal shear deformation arrive the design target displacement，the isolators have larger horizontal stiffness. Through full scale experiment，study the properties of variable stiffness Laminated bearing rubber，including compressive properties， shear properties and hysteretic behavior properties.

*Keywords: seismic-isolation technology， variable stiffness seismic-isolator of Series connection， elastomeric isolator.*

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