

高力ボルト摩擦接合継手のすべり後挙動の解明およびそれに基づいた合理的設計法の提案  
*Clarification of After-Slip Behaviour of High-Strength Frictional Bolted Joints and Proposal for New Design Method Focused on the Behaviour* キーワード：高力ボルト摩擦接合継手, 限界状態設計法 /key words: High-Strength Frictional Bolted joints, Limit State Design

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**Abstract:** The behaviour of high-strength bolted frictional type joints under an extreme load such as aseismic action is related to the bearing resistance. Elongation and ductility of a structure are also important performance under ultimate state. This study focused on the bearing limit state based on deformation of bolt holes, which is proposed by authors and called as deformed bearing limit state in Fig. 1. This state contributes to obtain high structural redundancy because we can control the safety margin of ductility and resistance.

This study suggests a factor of structural configurations to obtain high ultimate resistance and ductility, and design bearing resistance obtained by multiple regression analysis with the experimental and analytical results.

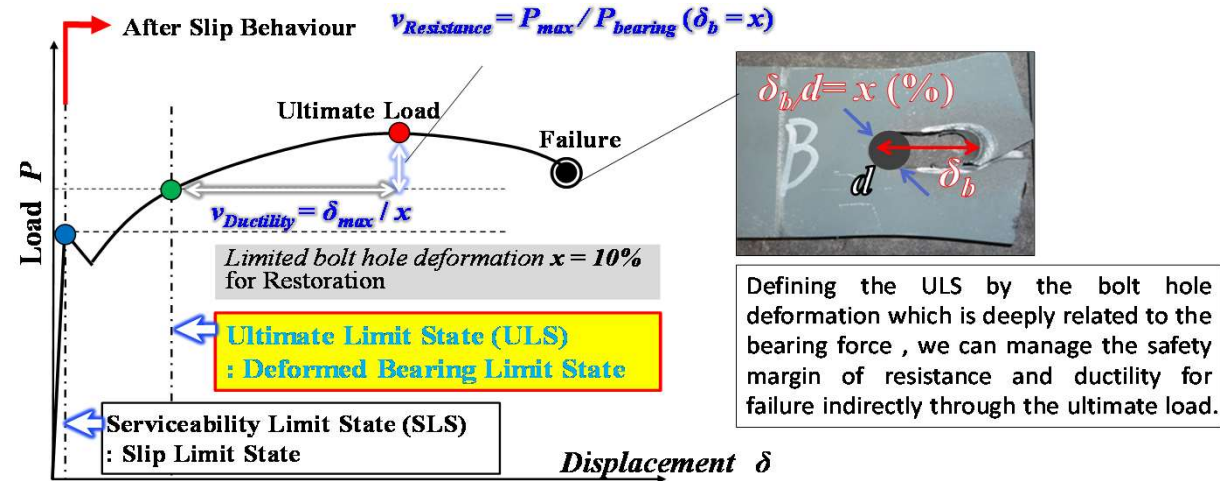


Fig. 1 Proposed ULS (deformed bearing limit state)



Fig. 2 Flow of this study to clarify the relationship among structural configurations, bearing resistance, ductility of joint