

# Kajian sambungan kunci geser jamak dengan perekat akibat beban vertikal = Study of epoxied multiple shear key subjected to vertical load

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## Abstrak

Sambungan geser berfungsi mentransfer gaya geser dari sambungan ke seluruh struktur jembatan, jadi harus didesain dengan baik. Desain terbaik terdapat pada sambungan yang memiliki beban potensial retak terbesar. Penelitian sambungan dilakukan dengan memodelkan sambungan kunci geser tunggal dengan epoxy dari jurnal rujukan dan dikembangkan dengan memberikan variasi lebar kunci, tinggi kunci bagian depan, jarak antar kunci, dan tebal epoxy pada sambungan kunci geser jamak. Pemodelan dilakukan dengan program ANSYS. Hasil pemodelan menunjukkan beban potensial retak terbesar terdapat pada sambungan dengan sudut kunci  $60^\circ$  untuk jarak antar kunci 66,675 mm dan  $45^\circ$  untuk jarak antar kunci 100,0125 mm.

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Shear key has a function to transfer shear forces from shear key to the bridge structure, so it must be designed properly. The best design can be found in shear key with the biggest load of potential cracking. Research of shear key was conducted by modeling a single shear key with epoxy of the journal reference and developed by providing several variations such as width of the key, height of the key, distance between keys, and the thickness of epoxy. Modeling done by ANSYS program. Modeling results showed that the biggest load of potential cracking resistance was found in shear key with key angle  $60^\circ$  for distance between keys 66,675 mm and  $45^\circ$  for distance between keys 100, 0125 mm.