



The photograph shows a vertical wall assembly undergoing a fire-resistance test. On the right, a fire is burning, creating a 'Fire side'. On the left, the wall is exposed to ambient conditions, labeled 'Ambient side'. The wall consists of a concrete or masonry core with vertical metal studs. Two specific studs are highlighted with red dashed circles and arrows, indicating their failure: 'Stud4 failure' and 'Stud5 failure'. The failure is characterized by significant buckling and crushing of the studs under load. A horizontal metal beam is visible across the middle of the wall.

Fire
side

Ambient
side

Stud4 failure

Stud5 failure