

Panel Prop Failure

Recently on a CBD site a rigger was in the process of removing props from pre cast panels positioned several weeks earlier, when the prop foot became detached from one of the props he was removing. Fortunately the foot remained inside the site. The riggers then stripped the prop down to reveal that the weld had failed on the collar that insured the foot stayed secured in the brace section. Unfortunately where this prop failed could not be visually inspected as it positioned inside brace section. *See photos below.*



View of failure of weld on prop foot



View of Prop foot attached to concrete panel

Panel props (Braces) – regulation

Division 9 of the Occupational Health and Safety Regulations 1996, 3.88d states that props used for tilt up or precast concrete panel erection must comply with AS 3850

Australian Standard 3850

Braces shall be designed and manufactured to provide a safety factor of two against failure.

Temporary bracing props shall be regularly maintained and inspected between each use to ensure that all components are correct and in good working order.

All props shall have the following information displayed working load limit, working load limit at zero extension and at maximum extension

Prop feet or shoes must be the type that physically prevents lateral displacement of the shoe from the insert connections after installation.