



Scope



Calculation and testing to determine the confirm the structural capacity of the fold-down access way and guardrails, as described below.

Exclusions

Only the structural strength aspects of the design of the assessed items were considered during this analysis. Assessment of the host machine, safe work methods, and risk assessments are the responsibility of others, and are excluded from certification.

Design data

Assessed items

Item	Identification Number	Description	Image
1	Fold-down platforms Wireline Truck Plant #2764	Structural strength aspects of fold down walkways were tested by calculation and by application of proof loads to the outer extremity adjacent to each support. A proof load producing a moment action equal to a distributed test load of 500kgf vertically downward was applied to each support location. The structure was visually examined to be free from permanent deformation and cracking after the test.	
2	Removeable guardrails Wireline Truck Plant #2764	Structural strength aspects of removeable guardrails were tested by calculation and by application of proof loads to the upper extremity of each stanchion. A proof load of 65kgf horizontally outward was applied to each support location. The structure was visually examined to be free from permanent deformation and cracking after the test.	

Standards

AS1657 (loading guidance only)	2018	Fixed Platforms, walkways, stairways and ladders – Design, construction and installation
AS3990	1993	Mechanical equipment - steelwork
AS1164.2	1997	Aluminium Structures



Notes

1. A risk assessment shall be carried out prior to commissioning of this item. Safe work methods shall be developed.
2. Prior to each use the assessed items shall be visually inspected for deformation, corrosion, cracking or other structural damage. If any damage is noted the affected item must be withdrawn from service until the damage is rectified.

Results

Testing demonstrated that the fold down walkways and removable guardrails comply with the structural strength requirements of the listed Australian Standards and are suitable for the working load limit of 250kg.

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For and on behalf of Straker Engineering Services Pty Ltd.