

Aldeck Telescopic Handrail System Installation Guide

Compliance Testing to AS/NZS 4994.1:2009

Patented

Revised Jan 2017



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Aldeck Handrail Systems

Introduction

The Victorian occupational health and safety act 2004 requires for all people and organizations to ensure a safe and healthy work environment. The Occupational Health and safety (prevention of falls) National code of practice 2008, provides practical guidance to all duty holders related to fall hazards associated with construction work and requires all duty holders to identify all risks that involve the possibility of someone falling more than 2 metres and eliminate all such hazards ,so far as is reasonably practical.

It is also noted in the code that a fall from almost any height including falls from below 2m can result in serious injury or death .It is possible that a number of factors can combine to create a dangerous situation making the hazard identification and risk assessment process essential for work at any height.

An employer's primary duty of care is to eliminate the risk of injury to an employee. The best way of achieving this is before work commences, identifying potential risks and applying risk control measures as set out in the hierarchy of control matrix of the prevention of falls compliance code. The use of perimeter guardrail is in the second highest control measure available, along with safety mesh and elevated work platforms. Only the possibility of carrying out work on the ground rates higher in the hierarchy than using a perimeter guardrail system. Aldecks handrail system can be used pre, during or post construction to minimize the risk of people falling from height. The Aldeck handrail system is fully tested and complies with AS 1657-2013 and AS/NZS 4994.1:2009

- The Aldeck handrail system should be erected and dismantled in accordance with legislation under the OH&S act. A thorough risk assessment should be conducted and a safe work procedure applied.
- The handrail system should only be installed, modified or dismantled by a component person familiar with the Aldeck safety rail system.
- Posts to be installed at a maximum of 3000mm.
 Handrail heights are dictated by the Australian standard and are dependent on the structure pitch.
- Where midrails are used, the nominal clear distance between rails shall not exceed 450mm.
- The nominal clear distance between a midrail and a toeboard or bottom rail shall not exceed 275mm. In any section of edge protection, the rails shall be nominally parallel.

IMPORTANT

It is important that the structure to which the temporary edge protection is to be attached can support the forces that may be applied when the edge protection restrains a person from falling from the edge.



Aldeck	Saftey Rail Components		
Part No.	Description	Part No.	Description
1	Base Post 1100mm Application Used as perimeter edge protection on concrete slabs or timber form work	2	Extension Post Application Used to extend Base Post from 1.1m anywhere up to 2.4m
Picture / I	Diagram	Picture /	Diagram
Upper Rail Loop Locking Bolt Upper Rail Loop Locking Bolt Upper Rail Loop Through bolt location for 2.4m high post Upper Rail Loop Upper Rail Loop Through bolt location for 2m high post		Lower Upper	Rail Loop Rail Loop Rail Loop Rail Loop

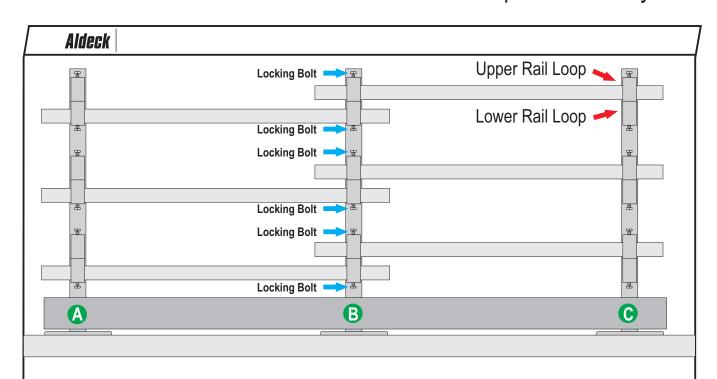


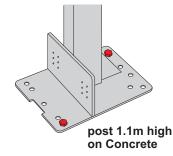
Aldeck	Saftey Rail Components		
Part No.	Description	Picture / Diagram	
3	Kick Board	150mm Minimum	
4	Detachable Rail Bracket Application Used as additional rail holder when extension post is extended above 2000mm	Locking Bolt Locking Bolt	
5	Handrail 50mm x 25mm x 2mm or 38mm x 25mm x 2mm	3200mm Standard Length	
6	M8 Screw bolt For fixing into concrete	M8 x 60mm long screw bolts for fixing into concrete. Check page 5 for position and amount of bolts required	
7	Screw 14 Gauge Timber For fixing into timber.	(3) minimum 14mm x 90mm type 17 timber screws per post extending into support beams below floor.	

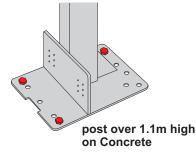


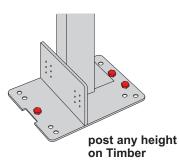
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STEP 1

Position the First Base Post (A) (Part 1) into desired location and fix to structure using appropriate fixings

Concrete

For posts 1.1m high, minimum of (2) 8mm screw bolts, set as diagram above, per post.

For posts above 1.1m high, minimum of (3) 8mm screw bolts, set as diagram above, per post.

Timbe

For any height post minimum (3) 14 x 90mm timber screws, set as diagram above, per post.

Timber screws must go through plywood and into timber support beams.

STEP 2

Position the next Base Post (B) in the desired location, no more than 3 metres apart.

Install rails placing them consistently down the base posts in either the top or bottom rail loop for any one segment. It is important that each rail is placed in the corresponding Upper or lower rail loop.

Lock rails into position using the lock bolts supplied in each rail loop.

STEP (3)

Position Base Post (i) in the desired location, no more than 3 metres apart.

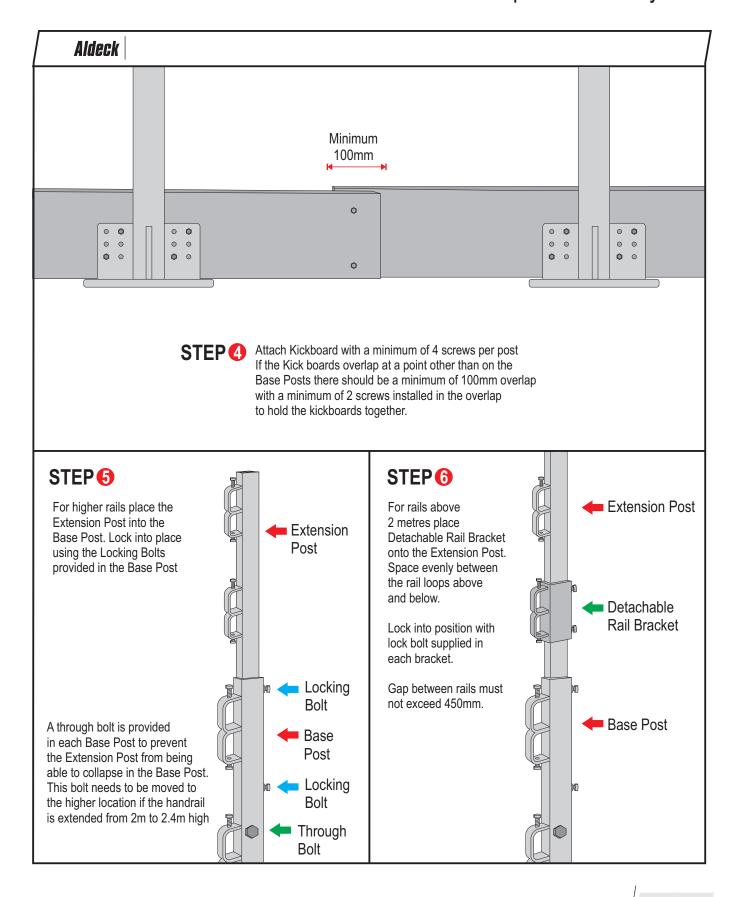
Install rails placing them consistently down the base posts in alternate rail loops than the preceding set of rails.

Repeat these 3 steps until the entire area you require has hand rail installed.



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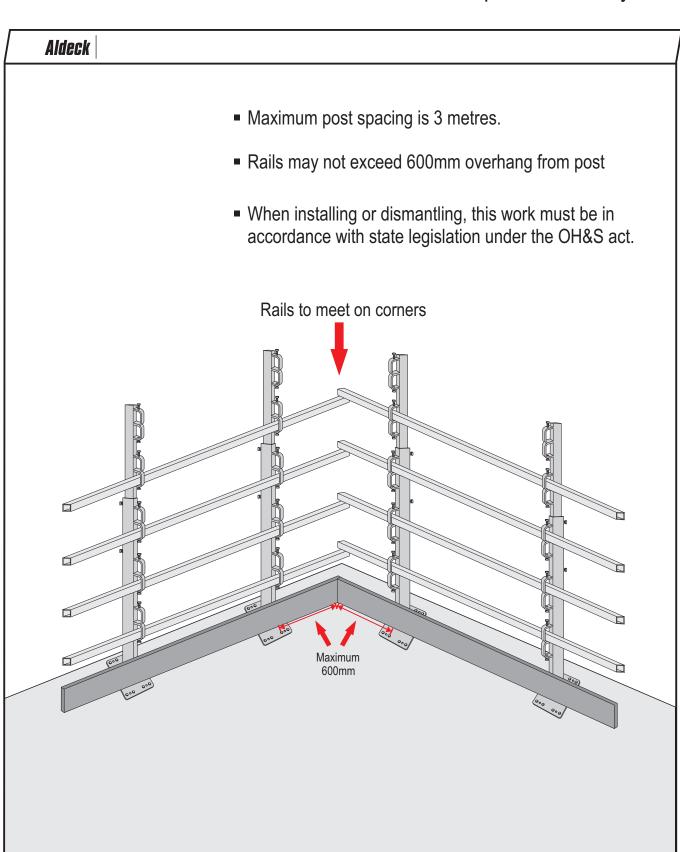
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Compa	ny:		Order No.:		
Job Naı	me:				
Addres	s:				
			Tel:		
Delivery Fee YES NO TELESCOPIC SYSTEM		HIRE	Date Required:COMMENTS		
Code #		Quantity			
1	Base Post 1100mm				
2	Extension Post				
3	Kick Board				
4	Detachable Rail Bracket				
5	Handrail 3200mm Length				
6	M8 x 60mm Long Screw Bolt				
7	Screw 14 Gauge Timber 90mm				
Job Naı	ny: me: s:				
Contact	t on site:		Tel:		
Pick Up	Fee YES NO	Date Re	turned:		
	ESCOPIC SYSTEM	RETURN	COMMENTS		
Code #	Description	Quantity			
1	Base Post 1100mm				
2	Extension Post				
3	Kick Board				
4	Detachable Rail Bracket				
5	Handrail 3200mm Length				
6	M8 x 60mm Long Screw Bolt				
7	Screw 14 Gauge Timber 90mm				
Retu	urned by:		Date:		