

SWING Ladder

The Safe-Away[®] SWING Ladder has been designed for heavy mining and excavation machinery to provide a low maintenance access system that will comply with step type ladder standards 65° for access and egress.

The ladder is electro-hydraulically controlled to provide an automatic three step process: swing up, retract in & lower to cradle. The ladder is protected from mechanical damage when raised to the fully retracted position when the vehicle is operational.



Safety & Efficiency

The **Safe-Away® Swing Ladder** has been specifically designed to suit a wide range of equipment and provides:

- 65° stairway for access and egress while carrying tools and other items.
- You may choose from a left or right swinging ladder to suit your vehicle.
- Steps of regulation size.
- Fixed handrail system for three points of contact.
- An LED boarding light activated by pressing the up or down directional switch. The light will stay on for an adjustable/preset period.
- Park Brake Interlock Kit providing additional protection by ensuring the ladder automatically when the park brake is released.



Safe-Away® Swing ladder in the down position on a PC1800.



Innovation

The **Safe-Away® 2009 Series Access Control System** manages all ladder operations.

It provides:

- Simple downloading of day to day logged data to a USB.
- Sequential reports on all events with time and date stamps:
 - Raising and lowering,
 - Fault indications.
- Operational history data logs
- Diagnostics and error reporting accessed directly from the Incab control digital display.



Access Control System Features

- Incab control panel with a digital touch pad display showing:
 - Access system status; UP, DOWN and IN MOTION.
 - Detailed fault indication with an internal audible alarm and system event log.
 - 3,000 point event data log with download using a USB key connection to the side of the Incab control panel.
- View downloaded log files as summary and/or full log data in Microsoft® Excel using the supplied SLA to XLS file converter.

The **Safe-Away® 2009 SWING Series Power Pack** is driven by the Access Control System. The dual acting hydraulic Power Pack may be mounted vertically, at a convenient location of your choosing, on the vehicle.

It includes:

- Harnesses and leads.
- Battery Circuit Breaker Kit.



Log Index	Event Label	Event Code	Date
1	Ladder Down	254	01/09/2000 11:31:47 PM
2	System Voltage Below 18V	18	02/09/2000 12:15:21 AM
3	Ladder Up	255	02/09/2000 12:20:20 AM
4	Ladder Down	254	02/09/2000 01:38:05 AM
5	Ladder Up	255	02/09/2000 01:40:34 AM
6	Ladder Down	254	02/09/2000 04:38:29 AM
7	Ladder Up	255	02/09/2000 05:21:04 AM
8	Ladder Down	254	02/09/2000 06:37:10 AM
9	System Voltage Below 18V	18	02/09/2000 06:42:51 AM
10	Ladder Up	255	02/09/2000 07:19:39 AM
11	System Voltage < 18V During Movement	17	02/09/2000 07:19:46 AM
12	Ladder Down	254	02/09/2000 08:00:52 AM
13	System Voltage Below 18V	18	02/09/2000 08:01:40 AM
14	Ladder Up	255	02/09/2000 08:08:12 AM
15	Ladder Down	254	02/09/2000 08:22:30 AM
16	System Voltage Below 18V	18	02/09/2000 08:24:54 AM
17	System Voltage Below 18V	18	02/09/2000 12:24:06 PM

Designed to suit your fleet

The **Safe-Away® Swing Ladder** is designed to suit OEM vehicles.

Each ladder may be varied to accommodate your requirements for specific mount points, platform handrails, infills, platforms, site and/or OEM colours, and Power Pack Locations. Pictured below Cat D10R and Komatsu D475A with Swing ladders.

SWING

Designed for use on:

- Dozers
- Shovels
- Excavators

Compatible OEM models include:

D9R	D9N	D9T	D10N
D10R	D10T	D11N	D11R
D11T	5130B	5230B	D275
D375	D475	PC1800	RH120

Can be adapted for other equipment



Optional extras

1. Additional Raise and Lower Control Panel Kit



A remotely mounted control panel designed to enable the raise and lower operation from outside of the vehicle's cab, or at a position accessible from ground level.

2. External Audible Alarm Kit

The external audible alarm is activated by pressing the up or down directional switch. The light will stay on for an adjustable/preset period.



3. Inhibit Kit

A relay with connecting harness for customer only installation of machine inhibit functions independent of the standard Safe-Away® in-built ladder safety functions.



4. Reservoir Heater

The Reservoir Heater ensures the viscosity of the oil is maintained to raise and lower the ladder in cold climates.

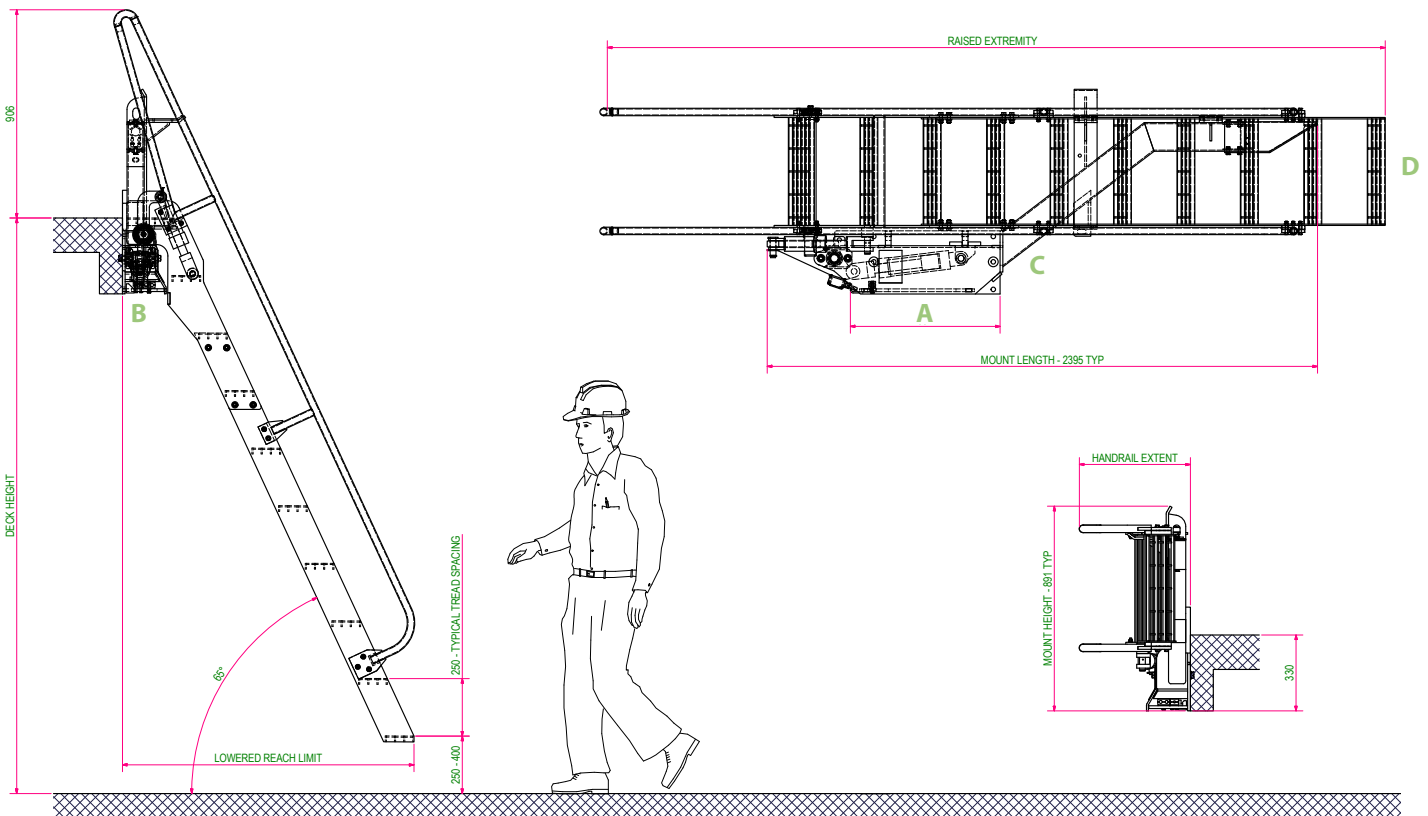


Specifications

This Safe-Away® Access System has been designed and manufactured to comply with the relevant sections of the following standards:-
SAE J185_200305 ISO 2867:2011 ANSI Z535.4-2007 ANSI A14.2-2007 AS 3868-1991

SWING Dimensions

Steps	Deck Height Maximum	Lowered Reach Limit	Raised Extremity	Handrail Extent
8	2145mm 84.48in	1040mm 40.94in	3125mm 123.03in	485mm 19.09in
9	2405mm 94.68in	1160mm 45.67in	3140mm 123.62in	485mm 19.09in
10	2655mm 104.52in	1270mm 50in	3450mm 135.83in	485mm 19.09in
11	2905mm 114.37in	1405mm 55.31in	3720mm 146.46in	485mm 19.09in



Dimensions (approximately)

A	Cylinder Housing Width	652mm	25.6in
B	Cylinder Housing Depth	192mm	7.5in
C	Cylinder Housing Height	451mm	17.7in
D	Ladder width	458mm	18in