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SYSTEM CONTENTS

In-Action	2
Features	3
Operation	4
Limitations	5
Safe Use Procedure	6
Harness Gear & Equipment	11
Maintenance	16
Technical	19
Warranty	20
Specifications	21

HARNESS GEAR & EQUIPMENT FOR SAFE WORK AT HEIGHT

▲ MUST BE READ AND UNDERSTOOD PRIOR TO USE

SYSTEM OPERATION MANUAL



ZERO® HARNESS GEAR

Sayfa Group leads the industry in the design, installation and management of access and fall protection safety systems.

The In-Action model demonstrates access and fall protection requirements for a commercial building design.

Sayfa Group recommendations fulfill current workplace requirements for the safety of building maintenance subcontractors, employees and the general public.

#	DESCRIPTION	
1	3 SIXTY	Fall arrest anchors
2	TRAVEL 8	Roof or wall mount static lines
3	SENTRY	Roof mount guardrails
4	ON-TRAK	Roof walkways (yellow or grey)
5	PROTEX	Skylight protectors
6	RAPTOR	Overhead fall arrest rails

#	DESCRIPTION	
7	KATT	Modular fixed ladders
8	VISTA	Modular fold down ladders
9	ALTO	Step ladders & step bridges
10	ALTO	Stairs & platforms
12	SKYDORE	Roof access hatches

For more information, please contact Sayfa Group directly.



IT'S THE SAYFA WAY

ZERO® FOR PERSONNEL WORKING AT HEIGHTS USING A HARNESS & LANYARD FALL PROTECTION SYSTEM

FEATURES & BENEFITS

DORSAL EXTENSION LANYARD

- Rear dorsal attachment point with Velcro® stowage system when not in use

SHOULDER STRAP TENSION BUCKLE

- Fully adjustable shoulder straps

REAR FALL ARREST D RING ATTACHMENT POINT

- For attachment of lanyard with energy absorber when a free fall is possible

CHEST STRAP TENSION BUCKLE

- Fully adjustable quick connect buckles with indicator

RATED TO 136KG

- European manufactured according to ISO9001:2008
- Australian/New Zealand Standards AS/NZS 1891.1:2007, European Standards EN361 and CE certification.

POLYESTER WEBBING

- Quality durable webbing for industrial strength with optimal comfort

FRONT FALL ARREST POINT

- Use on steeper pitched roofs when working in fall restraint

LEG STRAP & TENSION BUCKLE

- Fully adjustable quick connect buckle with indicator

LOWER BACK SUPPORT STRAP

- Additional back strap support to provide a comfortable and secure fit

UNIQUE PRODUCT FEATURE

LOCKABLE HARNESS CABINET

FOR SAFE AND CORRECT STORAGE.

Well ventilated and secure storage of harness gear is paramount for ensuring maximum performance and correct use of fall arrest equipment use.

PATENTS AND DESIGN REGISTRATIONS APPLY



OPERATION

MUST BE READ PRIOR TO USE

1. Prior to use, ensure all operating procedures have been read and properly understood.
2. This fall arrest system is only to be used by competent persons who have experience and training in the safe use of the system and associated equipment.
3. Ensure all WHS requirements are identified and understood. A risk assessment with a safe work method procedure must be completed and approved by management prior to work commencing.
4. This system requires periodic inspection and maintenance by a qualified height safety inspector. The system **MUST NOT** be used if the service date is overdue.
5. A rescue plan must be formulated and ready for implementation prior to using any fall arrest system.
6. Authorisation to access any risk area must be obtained from the person in control of the workplace.
7. Only approved full body harness, gear and equipment with an energy absorber certified to Australian Standard AS/NZS 1891 is to be used with this system.
8. Visually inspect the system for damage prior to use. The system must not be used if there is any deterioration or deformation of components or the structure to which the system is attached.
9. If the safety system is damaged or has arrested a fall, discontinue use until it has been fully inspected and recertified by a competent height safety equipment inspector.
10. Ensure all fixings, fittings and components are securely attached. Any tightening, adjustment or replacement of components must be carried out by a competent height safety inspector.
11. Persons must not be allowed to work alone in fall arrest situations in case emergency rescue assistance or first aid is required.
12. All applicable Australian Standards, WHS Acts & Regulations, and Codes of Practice & Guidelines must be read and obeyed when using this safety system.
13. The reading of this user manual does not replace the need for completing a recognised height safety training course by a Registered Training Organisation (RTO).

⚠ Failure to follow all warnings, usage and maintenance instructions may result in serious injury or death.



LIMITATIONS

MUST BE READ PRIOR TO USE

1. Only to be used by competent persons with proof of training by a Registered Training Organisation (RTO) in the use of height safety and fall protection systems.
2. Harness gear is susceptible to deterioration when exposed to chemicals or hazardous environments and must be approved by the manufacturer for use in these applications.
3. Operators of this system must be connected via a lanyard with a personal energy absorber, in accordance to Australian Standard AS/NZS 1891.1.
4. Do not exceed maximum number of users/persons per system. See specific system data plate for user configuration.
5. Do not tamper with system components.
6. This system is not to be used for tethering or lifting machinery or equipment.
7. The harness gear and equipment must be recertified by a competent height safety inspector as recommended:
 - Non corrosive/mild environment – 6 monthly
 - Corrosive/harsh environment – 3 monthly (more frequent inspection may be required)
8. Harness gear and equipment has been tested using a 100kg weighted fall device. Users weights in excess of this will need to be approved prior to use.
9. All harness equipment has a 10 year life span. Do not use if the remove from service date exceeds current date.

⚠ Sayfa recommends that persons using fall arrest systems do not work alone in case of an emergency and help is required. Should any part of the system/equipment have been subjected to abnormal loading, use must be discontinued until replaced/recertified by a competent height safety inspector.



SAFE USE PROCEDURE

STEP 1

Locate rear dorsal fall arrest D ring. Ensure harness is hanging freely and webbing isn't twisted. Visually check harness, fittings and labels.

⚠ **Harness gear must be certified to Australian & New Zealand Standards AS/NZS 1891.1:2007**

⚠ **Ensure system serviceability dates are current.**



STEP 2

Place harness over shoulder.



STEP 3

Bring harness over other shoulder and clip the chest quick connect buckle.



STEP 4

Adjust the chest strap to fit.



VIEW
VIDEO



SAFE USE PROCEDURE

STEP 5

Identify the front fall arrest loops.



STEP 6

See labels. Note that half 'A' requires to match other half of 'A' to create the rated front fall arrest point.



STEP 7

Place the karabiner through the front fall arrest loops and tighten the screw gate, to create the rated front fall arrest point.



STEP 8

Pull the leg strap up between the legs and connect with buckle.



SAFE USE PROCEDURE

STEP 9

Repeat on other side.



STEP 10

Tighten the leg straps to fit, tucking any excess webbing into holders.



STEP 11

Correct fit on leg straps should allow a flat hand to be placed behind the leg strap.



STEP 12

Correct chest fit should allow a fist to be placed behind the chest strap.



SAFE USE PROCEDURE

STEP 13

Adjust the shoulder webbings so that when the front fall arrest point is lifted, it is level with the sternum.



STEP 14

Back fall arrest D ring point should be correctly sitting between the shoulder blades.



STEP 15

Check final fit. You should be able to squat comfortably without tension on the body.



VIEW
VIDEO



SAFE USE PROCEDURE

CORRECT ROPE LINE LENGTH

Rope line length must be positioned to limit access beyond the fall edge



INCORRECT ROPE LINE LENGTH

Slack rope line between the user and the anchor will result in a free fall causing severe injury or death.



HARNESS GEAR & EQUIPMENT

MULTIPURPOSE FALL ARREST HARNESS - STANDARD - HR 002

- Standard Buckles
- Includes front and rear attachment points



MULTIPURPOSE FALL ARREST HARNESS - PREMIUM - HR 003

- Quick Connect Buckles
- Includes front and rear attachment points



MULTIPURPOSE FALL ARREST HARNESS - DELUXE - HR 004

- Quick Connect Buckles
- Padded Shoulder & Leg Straps
- Water & oil resistant
- Tool Loops



FALL ARREST HARNESS WITH 2.0M ENERGY ABSORBING LANYARD FIXED TO THE HARNESS - HR 005

- Quick Connect Buckles



CONFINED SPACE FALL ARREST HARNESS - HR 006

- Quick Connect Buckles
- Suitable for general purpose



VIEW
VIDEO



⚠ IMPORTANT: All users to be competently trained in the use of height safety equipment.

HARNESS GEAR & EQUIPMENT

KERNMANTLE ROPE
LIFELINE WITH
LENGTH ADJUSTER &
ENERGY ABSORBER
- HR 010

HR 010.15
- 15.0M

HR 010.20
- 20.0M

HR 010.30
- 30.0M



ENERGY
ABSORBING
LANYARD
WITH KARABINERS
- HR 020



⚠ NOTE: Slack rope line will increase the possibility of a free fall. Keep rope line slack to a minimum.

ENERGY
ABSORBING
LANYARD
WITH SNAP HOOK
- HR 021

- 2.0M
- Elasticated



ENERGY
ABSORBING
LANYARD WITH
SCAFFOLD HOOK
- HR 022

- 2.0M
- Elasticated



ENERGY
ABSORBING
LANYARD
- HR 023

- Adjustable Webbing
- 1.2 to 2.0M



ENERGY
ABSORBING
LANYARD
WITH DOUBLE
SCAFFOLD HOOKS
- HR 024

- 2.0M
- Elasticated



HARNESS GEAR & EQUIPMENT

RETRACTABLE
WEBBING
LANYARD WITH
SNAPHOOK
- HR 025

- 2.3M



⚠️ **HR 025 unit requires annual recertification**

RETRACTABLE
WIRE ROPE
LANYARD WITH
SNAPHOOK
- HR 026

HR 026.06
- 6.0M

HR 026.10
- 10.0M

HR 026.15
- 15.0M



⚠️ **HR 026 unit requires annual recertification**

ANCHOR STRAP
- HR 029

- 1.5M



⚠️ **NOTE: Ensure supporting structure can sustain load in an event of a fall.**

22KN KARABINER
TWISTLOCK TYPE
- HR 030T

- 22kN rated



⚠️ **NOTE: Ensure screw gate is tightened securely.**

KARABINER
SCREWGATE TYPE
- HR 030S

- 22kN rated



⚠️ **NOTE: Ensure screw gate is tightened securely.**

HARNESS GEAR & EQUIPMENT

KARABINER TWISTLOCK TYPE - HR 031

- 45kN rated



QUICK LINK SCREWGATE TYPE - HR 032

- 8mm 316 stainless
- 15kN rated



TEMPORARY WEBBING STATIC LINE - HR 038

- 20.0M



TEMPORARY RELIEF STEP - HR 047

- To suit Fall
Arrest Harness



⚠️ **Maximum of one user per span.**

⚠️ **Anchorage point must be 15kN rated.**

LOCKABLE HARNESS EQUIPMENT CABINET - HR 048

- 700 x 500 x 300mm
- Includes Shelf and
Log Book Holder)



HARNESS GEAR BACKPACK - HR 049



⚠️ **IMPORTANT: Ensure all harness gear is correctly stored away in carry bag or cabinet.**

HARNESS GEAR & EQUIPMENT

MULTIPURPOSE ROOFERS HARNESS KIT - HR 040.15

- 5.4kg

Includes

- HR 003** Multipurpose Fall Arrest Harness
- HR 010.15** 15.0M Rope Line with Length Adjuster
- HR 020** Including Energy Absorbing Lanyard with Karabiners
- HR 029** 1.5M Anchor Strap
- HR 030S** 22kN Karabiner Screwgate Type
- HR 049** ZERO Harness Gear Backpack



TEMPORARY WEBBING STATIC LINE KIT - HR 042

- 20.0M

- 6.8kg

Includes

- HR 038** 20.0M Webbing Static Line - 4.5kg
- HR 029** Anchor Strap 1.5M x 2 - 1.5kg
- HR 031** 45kN Karabiner Twistlock type x 3 - 1.0kg



⚠ **Maximum of one user per span.**

⚠ **Anchorage point must be 15kN rated.**

MAINTENANCE

1. The Zero harness gear and equipment system needs to be checked and recertified by a competent height safety inspector every 6 months for non corrosive environments or 3 monthly for corrosive or harsh environments. (To be determined by specialist depending on severity of surrounding conditions.)
2. Never clean using acids or other chemicals that could damage the system components.
3. The harness webbing is subject to wear depending on frequency of usage. Any signs of excessive wear will require the harness equipment to be replaced.
4. The identification label showing the manufacturer's name and date of manufacture must be clearly visible.
5. As per Australian Standards AS/NZS 1891.1 harness gear and equipment must be removed from service after 10 years from date of manufacture.
6. Harness gear and equipment must be maintained and stored in a dry, protected area, away from acids and ultra violet rays which cause material fibres to break down and reduce their safety and life expectancy.
7. Any deterioration or damage to the system or equipment must be reported to person in control of the workplace.
8. Maintenance inspections must be clearly documented. Any non-conformance must be clearly identified and tagged 'Do Not Use' until corrective action by a competent person has been completed.



MAINTENANCE




The checklist below outlines key checking criteria required to ensure the safe use of this system. Any item of concern not shown on the checklist must be noted on the maintenance report and brought to the attention of the workplace manager.

Items **PASSED** - means they conform with the required checking criteria and are suitable for normal use until the next recertification date. System data plates must be updated showing current check date and next check date.

Items **FAILED** - means they do not conform to the required checking criteria. These items must be clearly tagged 'Do Not Use' and the required corrective actions put in place. The maintenance report must clearly document all non-conforming criteria.

⚠ This system must be maintained by a competent height safety inspector trained in the safe use and maintenance of this system.





SYSTEM MAINTENANCE CHECKLIST

COMPONENT	INSPECTION CRITERIA	PASSED ✓	FAILED ✗	CORRECTIVE ACTION	COMPLETION DATE
WEBBING 	No cuts or tears in webbing				
	No abrasion damage especially where there is contact with hardware				
	No excessive stretching of webbing				
	No damage due to contact with heat, corrosives or solvents				
	No deterioration due to rotting, mildew or ultraviolet exposure				
SNAP HOOKS & KARABINERS 	No distortion of hook or latch				
	No crack or forging folds				
	No wear at swivels and latch pivot pin				
	Free movement of the latch over its full travel				
	No broken, weak or misplaced latch springs (compare if possible with a new snap hook)				
	Free from dirt or other obstructions				
HARNESS D-RINGS 	No cracks, especially at the intersection of the straight and curved portions				
	No distortion or other physical damage of the D-ring				
	No excessive loss of cross-section due to wear curved portions				

Continued page 18

MAINTENANCE

SYSTEM MAINTENANCE CHECKLIST (CONT)

COMPONENT	INSPECTION CRITERIA	PASSED ✓	FAILED ✗	CORRECTIVE ACTION	COMPLETION DATE
BUCKLES & ADJUSTERS 	No distortion or other physical damage				
SEWING 	No broken, cut or worn threads				
	No damage or weakening of threads due to contact with heat, corrosives, solvents or mildew				
ROPES 	No cuts, abrasions or fraying				
	No excessive stretching				
	No damage due to contact with heat, corrosives, solvents etc.				
	No deterioration due to ultraviolet exposure or mildew				
	Manufacture date is less than 10 years old. Note: Any harness gear older than 10 years must be tagged "OUT OF ACTION" and discarded				

⚠ A record of system maintenance, recertification and repairs must be kept by the workplace manager.

TECHNICAL

FALL CLEARANCE

There must be sufficient clearance below the user to arrest a fall before the user strikes the ground or another lower level hazard. The clearance required is dependent on the following factors:

- Elevation of anchorage
- Anchorage deflection
- Lanyard length
- Lanyard elongation on deceleration pull out (personal energy absorber)
- Operator height
- Fall distance residual clearance

See AS/NZS 1891.4:2009 Section 7 for a detailed explanation.

SYSTEM REQUIREMENTS

The worker must wear a full body harness when connected to any fall arrest system including a personal energy absorber compliant with AS/NZS 1891.2:2001 and AS/NZS 1891.4:2009 limiting the force on the anchor and operator to a maximum of 6kN.

Harness connectors must support at least 15kN. Non-compatible connectors may unintentionally disengage (roll-out). Karabiners supplied with proprietary systems must not be removed or substituted with any other component.

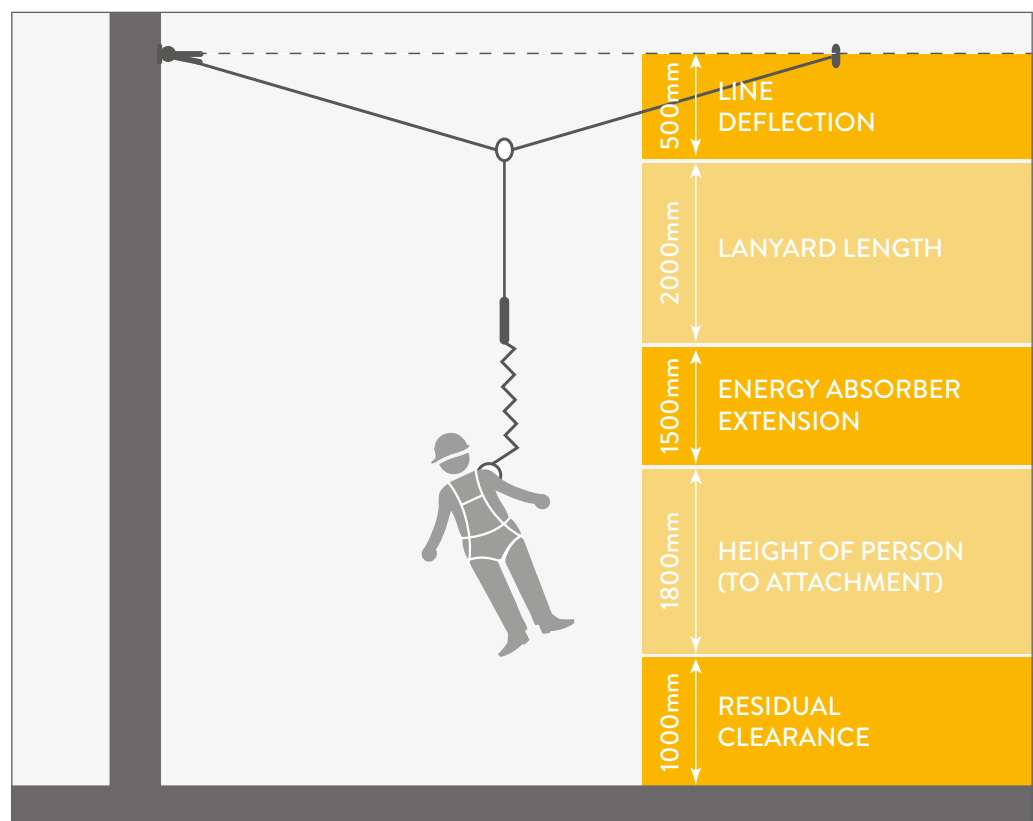
INSPECTION AND MAINTENANCE

Inspection and recertification of fall arrest systems and equipment is required at least every 12 months by competent person in accordance with manufacturer's specifications and requirements of Australian Standard AS/NZS1891.4:2009 Section (9).

IMPORTANT NOTE

Failure to supply and/or install Sayfa proprietary products in accordance with above standards and codes, specifications and instructions voids complete system certification and/or warranty.

FALL DISTANCE CALCULATOR (To be used as a guide only)



WARRANTY

WARRANTY PERIOD ON THIS SYSTEM - 3 YEARS FROM DATE OF PURCHASE

Should you have a warranty claim as a result of a defect the following procedure must be followed:

Identify the following information:

- The product/system name and code number.
- The date of purchase/installation.
- Installation company details.
- The installation identification number.
- The name of the company using this system.
- A description of the defect/warranty claim.
- The periodic system maintenance report.

Forward the above information
to sales@sayfa.com.au or contact technical
helpline, 1300 301 755.

TERMS & CONDITIONS

- All warranty claims must be made in writing within 14 days of the appearance of the defect.
- Incorrect installation or work done by a non accredited Sayfa system installer will void all warranty rights.
- Systems that have been installed using non proprietary equipment will void all warranties.
- System roof/cladding penetration seals are not covered in this warranty.
- Systems/components that have not been maintained in accordance with manufacturer's/legislative requirements will void warranty.
- Systems used by incompetent persons or use with non compatible accessories ie. harness gear, lanyards, travellers, fall arrestors etc. will void warranty.
- Systems/components used for purposes other than their intended use will void warranty.
- General wear and tear is expected and will depend on the frequency of use and is not covered by warranty.

NEVER HAS SAFETY IN THE WORKPLACE HAD A HIGHER PRIORITY

DISCLAIMER

All product specifications and technical descriptions, recommendations and other information provided, are given as general guidance and advice, and are to be read in conjunction with Sayfa Group installation instructions and any other data available and applicable to each particular standard product or system. Use of such data is however the user's sole responsibility, taking into account the intended application and actual conditions existing on the particular worksite. Consequent selection of the right product for any particular use, remains the user's ultimate responsibility. Sayfa Group is therefore not obligated or liable for any direct or indirect, incidental or consequential damages, losses or expenses in connection with, or by reason of the suitability and use of or otherwise, any product or system for any purpose. Implied warranties of merchantability or fitness for any particular purpose, are specifically excluded.

All Sayfa Group products must be installed and used by competent personnel trained in the selection, safe use and maintenance of fall arrest systems and equipment by a registered training organisation (RTO). Installation not in accordance with Sayfa Group requirements or the use of non Sayfa Group components will void all certification and warranties.

Suitability of support structure and design layout of system is the responsibility of the installer and should be verified by a competent person trained by a Registered Training Organisation (RTO) in the selection, safe use and maintenance of fall arrest systems and equipment or approved by a structural engineer to ensure conformance.

Sayfa Group maintains a policy of continuous improvement and development, and therefore reserves the right to modify, amend or otherwise alter product and system designs and specifications, models and part numbers, colours and pricing etc without prior notice. Errors and omissions are excepted, and Sayfa Group accepts no liability for incorrect information, errors or omissions.

TECHNICAL SPECIFICATION

SYSTEM CODE	ZERO HARNESS GEAR & EQUIPMENT HR 000
TECHNICAL DATA	<p>HARNESS ASSEMBLY</p> <ul style="list-style-type: none">- Load rating - 136 kg (For use with standard fall arrest lanyard)- Material - manufactured from polyester webbing- Weight - 1.3 kg (Includes all buckles and D-Rings) <p>ROPELINE</p> <ul style="list-style-type: none">- Load rating - 1 Person- Material - manufactured from Nylon, 11mm kernmantle rope- Weight - 15m – 2.2 kg <p>ENERGY ABSORBER</p> <ul style="list-style-type: none">- Load rating - 200kg commencement deployment load- Material - manufactured from polyester- Weight - 0.7 kg (Includes end karabiners) <p>KARABINERS</p> <ul style="list-style-type: none">- Load rating - 23kN- Material - manufactured from alloy steel- Weight - 0.6 kg <p>WORKING LOAD LIMIT</p> <p>All fall arrest harness gear is rated at 100 kg and is designed for a maximum free fall of 2000mm. An energy absorber is to be Incorporated as a safety factor whenever a fall arrest situation is encountered.</p>
COMPLIANCE	Zero harness gear and equipment is designed and manufactured in accordance with requirements of Australian standards AS/NZS 1891.1 and relevant statutory OHS codes of practice guidelines.
TESTING	Testing and performance is based on requirements of Australian Standards AS/NZS 1891.1 with NATA certification.
PRODUCT WARRANTY	3 years from date of purchase subject to correct use and maintenance in accordance with manufacturer's specifications and recommendations.
INSPECTION AND MAINTENANCE	Inspection and certification required every 6 months by a competent height safety equipment inspector in accordance with manufacturers specifications and requirements of Australian standards AS/NZS 1891.1 (<i>Refer instruction manual.</i>)
IMPORTANT NOTE	Failure to supply and/or install proprietary product in accordance with above standards and codes, specifications and instructions voids complete system certification and/or warranty.





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THE SAYFA GROUP

WE SAVE LIVES!

This is our Mission, and it drives our Vision to BRING EVERY WORKER HOME SAFELY.

Sayfa Group leads the industry in the design, installation and management of access, fall protection and ground safety systems. As an Australian owned company, we engineer and rigorously test our proprietary systems to exceed national and international standards. Simple installation and easy to use systems are our key drivers for ensuring maximum effectiveness, improved safety and compliance with Occupational Health and Safety standards in the workplace.

OUR VALUES

We are governed by the following principles in everything we do:

- A – Accountability / Totally responsible and answerable for our actions.
- L – Loyalty / Steadfast and dependable based on our values in our dealings with one another.
- I – Integrity / Honest and sincere, we do what we say, on time every time.
- V – Value Driven / Increase what's of value in view of a win win plan for all.
- E – Enthusiastic / Motivated and inspired to continuously perform better.

COMMITMENT

We are passionate about our work with every product a testament to our commitment of world class safety, quality and performance. Our obligation is to live up to our own high standards as well as those of our customers and stakeholders ensuring total peace of mind.

