

ADVANCED DOORS LTD



'VIKING STAR IV'
ROLLER SHUTTER DOOR

**INDUSTRIAL DOOR OWNERS LOGBOOK
OPERATING & MAINTENANCE INSTRUCTIONS
SERVICE INSTRUCTIONS
MAINTENANCE RECORDS
CERTIFICATION**

CONTENTS

'VIKING STAR IV' ROLLER SHUTTER DOOR

| | |
|--------------------------------|----|
| 1.1 Introduction | 3 |
| 1.2 Door Warranty | 3 |
| 1.3 Operating Instructions | 4 |
| 1.4 Automation | 5 |
| 1.5 Cleaning Methods | 5 |
| 1.6 Service | 6 |
| 1.7 Safety Devices | 6 |
| 1.8 General Safety | 7 |
| 1.9 Maintenance | 7 |
| 1.10 Service Check Sheet | 8 |
| 1.11 Maintenance / Repairs Log | 9 |
| 1.12 Certification | 10 |

'VIKING STAR IV' ROLLER SHUTER DOOR

1.1 INTRODUCTION

An industrial door is a vital everyday piece of machinery in the operation of almost every industrial building. If a door is not maintained properly it can become extremely dangerous and, if un-useable, can even stop your business operations. To comply with Health & Safety regulations and to keep within our warranty it is imperative that the door be operated and maintained in accordance with these instructions. Should you require any further information or assistance with this logbook, please do not hesitate to contact us.

These operating instructions must be passed to the owner of the door and read and understood by all personnel who will have cause to operate the door.

1.2 DOOR WARRANTY

All equipment manufactured or supplied by the Company is guaranteed against faulty materials and workmanship for a period of 12 months from the date of installation (or delivery in the case of supply only). This warranty is subject to fair wear and tear and having been maintained to our recommendations.

All equipment manufactured in compliance with the following standards...

BS EN 13241-1
BS EN 12424
BS EN 12425
BS EN 12427
BS EN 12453
BS EN 12444
BS EN 12489
BS EN 12445
BS EN 12604
BS EN 12605
BS EN 12635

Each product is CE marked and labelled in accordance with BS EN 13241-1.

Please Note:-

To comply with BSEN 13241-1 and Regulation 5 of the Workplace (Health, Safety and Welfare) Regulations 1992, it is the responsibility of the owner of the door to maintain a fully detailed service and maintenance record and ensure it is serviced in accordance with the our recommendations.

1.3 OPERATING INSTRUCTIONS

“VIKING STAR IV” ELECTRICALLY OPERATED ROLLER SHUTTER DOOR

Application

These operating instructions apply to a Roller Shutter Door, which is operated via a tubular motor drive mounted within the barrel assembly.

Basic Operation

To open the door.

Check the door is not locked in any way and that there are no obstructions that may prevent the door from opening. DO NOT ATTEMPT TO OPERATE THE DOOR UNTIL ALL OBSTRUCTIONS HAVE BEEN REMOVED.

Apply continued pressure to the “UP” button, positioned at the side of the door, and the door will travel vertically until it reaches its upper limit switch. At this point the control circuit will open and the brake will engage to stop the door at its fully open position.

If at any point the button is released, the door will stop at its current position. To restart the open operation, simply press the “UP” button again. If an additional means of safety is supplied with the door, such as a photoelectric safety beam, then continued pressure would not be required on the button. If at any time you need to stop the door, simply press the red emergency “STOP” button.

If a key switch is supplied in lieu of push buttons, enter key into cylinder and turn towards “UP” to activate the door. The key switch will require continued pressure, as it is spring loaded to its “OFF” position.

To close the door.

Check the door is not locked in any way and that there are no obstructions that may prevent the door from closing. Check that the area is clear of all personnel. DO NOT ATTEMPT TO OPERATE THE DOOR UNTIL ALL OBSTRUCTIONS HAVE BEEN REMOVED.

Apply continued pressure to the “DOWN” button, positioned at the side of the door, and the door will travel vertically until it reaches its lower limit switch. At this point the control circuit will open and the brake will engage to stop the door at its fully closed position. If at any point the button is released, the door will stop at its current position. To restart the close operation, simply press the “DOWN” button again.

If an additional means of safety is supplied with the door, such as a safety edge or photoelectric safety beam, then continued pressure will not be required on the button. If at any time you need to stop the door, simply press the red emergency “STOP” button. If a key switch is supplied in lieu of push buttons, enter key into cylinder and turn towards “DOWN” to activate the door. The key switch will require continued pressure, as it is spring loaded to its “OFF” position.

A safety brake is fitted to the non-motor end of the barrel assembly at high level. This is to prevent uncontrolled dropping of the door curtain. If a problem occurs that would cause the safety brake to engage the door will be locked in its position and the electrics to the motor will be open circuited. To release the brake, simply re-open the door. Please note that continued activation of the safety brake would substantially reduce its life expectancy.

Emergency Manual Over Ride Operation (if installed)

Before using the manual system, switch off the power at the isolator and remove the key from the starter unit.

In the event of a power failure, the door is supplied with a manual over ride system. This is via a hand crank and should only be used in emergencies. PLEASE NOTE that the emergency manual over ride system is not designed for everyday use and that excessive use will cause premature failure.

Locate the winding eye mechanism. This is located at the motor end of the barrel assembly. Insert the winding handle and wind the door in the direction required.

Automatic Operation

Where a door control system is fitted, such as timed return, radio control or induction loop activation, additional safety features will be installed on the door to give the required protection. Please refer to the automation section in the instructions.

1.4 AUTOMATION

Basic Timed Close Operation

The door is opened via the normal method, however, the door will self close after a period of time. An Opto-Electronic self-monitoring safety edge is installed on the leading/bottom edge of the door. This will stop and then re-open the door if it comes into contact with an obstruction. A Photo Safety Beam is also provided across the door opening, which will prevent the door from closing if the beam is broken. This safety beam will also stop and re-open the door if broken during its closing cycle.

Remote Operation

The door is to be operated from a remote location via push buttons of a key switch.

An Opto-Electronic self-monitoring safety edge is installed on the leading/bottom edge of the door. This will stop and then re-open the door if it comes into contact with an obstruction. A Photo Safety Beam is also provided across the door opening, which will prevent the door from closing if the beam is broken. This safety beam will also stop and re-open the door if broken during its closing cycle.

Radio / Infra Red Operation

The door is to be operated from a remote location via hand held transmitters. It can be closed by the transmitter or can be timed closed.

An Opto-Electronic self-monitoring safety edge is installed on the leading/bottom edge of the door. This will stop and then re-open the door if it comes into contact with an obstruction. A Photo Safety Beam is also provided across the door opening, which will prevent the door from closing if the beam is broken. This safety beam will also stop and re-open the door if broken during its closing cycle.

Induction Loop Operation

The door is to be operated from induction loops set into the floor. The loops also act as a means of safety in that the door will not self-close whilst the vehicle is parked on the loops. The door will self close via timed closing.

An Opto-Electronic self-monitoring safety edge is installed on the leading/bottom edge of the door. This will stop and then re-open the door if it comes into contact with an obstruction. A Photo Safety Beam is also provided across the door opening, which will prevent the door from closing if the beam is broken. This safety beam will also stop and re-open the door if broken during its closing cycle.

Movement Sensor

The door is operated by means of a motion detector. The door will self close via timed closing.

An Opto-Electronic self-monitoring safety edge is installed on the leading/bottom edge of the door. This will stop and then re-open the door if it comes into contact with an obstruction. A Photo Safety Beam is also provided across the door opening, which will prevent the door from closing if the beam is broken. This safety beam will also stop and re-open the door if broken during its closing cycle.

1.5 CLEANING METHODS

Galvanised Steel

Some door sections are manufactured from galvanized steel, are designed for external applications and require little or no maintenance under normal operating conditions. Any general build up of dust or grime should be removed with a damp cloth using a proprietary soap and water mixture.

Plastisol Faced Steel

Some door sections are manufactured from HP 200 plastisol coated steel, which require little maintenance under normal conditions. Any general build up of dust or grime should be treated as above.

Floor Guide Channels

Floor guide channels should be kept clear of debris build up on a daily basis. Build up may cause the door to jam or not close properly. Simple brushing will suffice.

Winding Gear, Motor Unit, Barrel Assemblies

Winding gear, motor units (electric doors), and barrel assemblies are generally under cover at high level and do not require regular cleaning between planned maintenance periods.

Cleaning Materials, Solvents etc.

Heavy industrial cleaners such as trichloroethylene, paint thinners, formaldehyde petrol, diesel, sodium bicarbonate or “Gunk” should not be used. Nor should sand or shot blasting techniques, nor oxidizing agents. White spirit may be used to remove graffiti but the door should be thoroughly washed and rinsed using a proprietary soap and water mix afterwards.

1.6 SERVICE

It is essential that the door operation remains functioning in accordance with the operating instructions. To ensure this happens a documented maintenance regime shall be established and maintained by the employer in accordance with Regulation 5 of the Workplace (Health, Safety and Welfare) Regulations 1992.

Failure to do so may result in prosecution in the event of an accident.

The company operates a service contract scheme. If you require information on Service Contracts please our after sales department.

Service Frequency

Note: Failure to keep the door regularly maintained could invalidate the warranty.

The following recommendations are for maintenance and repairs to ensure that the door remains in full working order throughout its service life. To ensure safe and reliable operation regular inspection and maintenance is essential. The frequency is dependent on the use.

| Door cycles per day (1 cycle = open & close) | Recommended Maintenance period |
|---|-----------------------------------|
| Up to 15 | 6 months |
| Up to 30 | 4 months |
| Up to 45 | 3 months |
| Over 45 | 2 months |

Prompt service and repairs will avoid unnecessary stress on components, which could lead to premature wear or failure.

Warning – Activities, which interfere with any part of the door that is under tension, must not be undertaken by untrained personnel. Interference with these components can be dangerous and should only be undertaken by trained personnel as part of regular maintenance.

1.7 SAFETY DEVICES

Safety Edge

An Opto-Electronic safety edge will be fitted to a door if any level of automation is required. The safety edge is connected to a control panel and will be self-monitoring. If any problem occurs with the safety edge, it will fail-safe and the door will only be able to be operated via continual pressure on the control buttons.

Safety Beam

A photoelectric safety beam may be fitted to the door to work in conjunction with a safety edge. If the beam is broken, the door will not close. If the beam is broken during closing, the door will stop and re-open to its fully open position. Please note that if the beam is out of alignment, the door will not operate.

Safety Brake

If a safety brake is provided and has been accidentally activated, simply open the door and the brake will re-set itself. If the brake has been activated to protect the door a full inspection must be carried out by a fully trained door engineer.

Safety Drive Motor

If the door is fitted with a safe drive motor and the internal safety brake has been activated, the motor will need replacing by a fully trained door engineer.

1.8 GENERAL SAFETY

The following safety instructions should be adhered to at all times, failure to do so could lead to an accident and injury

1. Keep openings clear at all times.
2. Do not operate a damaged door, or one that is difficult to operate. In the event that the door is found to be damaged or difficult to operate, lock the door, remove the key, leave a warning notice on the door and ensure that a qualified person inspects the door.
3. Do not lean ladders against the door, the guides, or the casing.
4. Stand well clear of the opening whilst the door is being operated.
5. Operate the door only by the means provided.
6. Do not remove the casing over the curtain roll and the headgear unless the door is stopped, the chain is secured and locked in position or the power switched off at the isolator on power operated doors.
7. Do not use doors to lift materials or personnel.
8. Do not dash through a closing door. Wait for it to close and then re-open.

1.9 MAINTENANCE BY THE USER

On a daily basis the user should ensure that:

There is no damage to any parts of the door.

Excessive force is not required to operate the door.

Any damage to the door or excessive force needed to operate the door is reported and action taken as necessary to put the door in good working order.

Components of the door and the guides are free from dirt and dust build up likely to affect the operation.

The door operation continues to comply with the safety requirements

Maintenance – by Specialist Engineer

A specialist service engineer in accordance with the service work instructions and task sheets should carry out the service and maintenance in accordance with the recommended service frequency as stated in section (1.6).

1.10 SERVICE CHECK SHEET

Note: - Before operating the door, carefully inspect both internal and external sides of the door for obvious signs of wear or damage. If badly damaged, do not operate the door.

Door Curtain

- Check general condition of door curtain.
- Check laths for signs of wear or damage.
- Check that endlocks fixed to the ends of laths are secure.
- Check wind anchors are secure (if installed).
- Check curtain is securely fixed to barrel assembly.
- Check bottom rail section for wear or damage.
- Check seal on bottom rail section.
- Check the operation of any locking devices fitted.

Side Guides

- Check all fixings are secure.
- Check condition of guide channel and straighten any slight deformations.
- Grease guide channel if necessary.
- Check guide stops at high level.
- Check any chain keeps fitted.
- Check that the door curtain feeds into the guides smoothly and correctly.

End Plates and Barrel Assembly at High Level

- Check fixings are secure.
- Check and lubricate all gearing.
- Check all grub screws and keys.
- Check and lubricate drive chain if fitted.
- Check haul chain.
- Check barrel for correct tension. Re-tension barrel assembly if required to correctly balance the door curtain.
- Check condition of safety brake if fitted.
- Check that coil casing is securely fixed (if installed).

The springing in the barrel assembly is designed for approximately 20,000 cycles. At this point the barrel assembly should be replaced.

Electrical Drive System

- Check fixings are secure.
- Check motor drive is securely fixed.
- Check drive gearing and lubricate.
- Check operation of manual over-ride system.
- Check electrical interlock of manual over-ride system.
- Check door travel limits and adjust if required.
- Check correct operation of control buttons.
- Check correct operation of safety edge (if installed).
- Check correct operation of safety beams (if installed).
- Check all other control systems (if installed).

If the door is correctly used and maintained, the motor drive system is designed to operate for at least 20,000 cycles. At this point consideration should be given to replace the motor drive.

Service Label

- Complete the service label adhered to the door and logbook if available.

1.11 MAINTENANCE / REPAIRS LOG

| | |
|-----------------|-------------------|
| Date: | Work Carried Out: |
| Engineers Name: | |
| Date: | Work Carried Out: |
| Engineers Name: | |
| Date: | Work Carried Out: |
| Engineers Name: | |
| Date: | Work Carried Out: |
| Engineers Name: | |
| Date: | Work Carried Out: |
| Engineers Name: | |
| Date: | Work Carried Out: |
| Engineers Name: | |
| Date: | Work Carried Out: |
| Engineers Name: | |
| Date: | Work Carried Out: |
| Engineers Name: | |
| Date: | Work Carried Out: |
| Engineers Name: | |

1.12 CERTIFICATION

EC DECLARATION OF CONFORMITY

Product:- Roller Shutter Door
Manufacturer:- Advanced Doors Limited
Park Mill Way
Clayton West
Huddersfield
West Yorkshire
HD8 9XJ

The above product is in conformity with the essential Health & Safety requirements of the Products Standard BS EN 13241-1 and the following transposed harmonised standards...

BS EN 292: parts 1 & 2: 1991
BS EN 294: 1992
BS EN 60204: part 1: 1997
BS EN 418: 1992
BS EN 12453: 2001
BS EN 12604: 2004
BS EN 12445: 2001
BS EN 12635: 2002
BS EN 12424: 2000
BS EN 12425: 2000
BS EN 12426: 2000
BS EN 12427: 2000
BS EN 12444: 2001
BS EN 12428: 2000
BS EN 12489: 2000

All relevant certificates and test reports are included in the technical construction file.

Signature:-



Name:-

P A Whyatt
Managing Director

EC DECLARATION OF INCORPORATION

Product:- Power Operated Roller Shutter Door

Manufacturer:- Advanced Doors Limited
Park Mill Way
Clayton West
Huddersfield
West Yorkshire
HD8 9XJ

The above product is in conformity with the essential Health & Safety requirements of the Product Standard BSEN 13241-1 and the following transposed harmonised standards.

BSEN 292: parts 1 & 2:1991
BSEN 294:1992
BSEN 60204: part 1: 1997
BSEN 418: 1992
BSEN 12453:2001
BSEN 12604:2004
BSEN 12445:2001
BSEN 12635:2002
BSEN 12424:2000
BSEN 12425:2000
BSEN 12426:2000
BSEN 12427:2000
BSEN 12444:2001
BSEN 12428:2000
BSEN 12489:2000

The product to which this Declaration of Incorporation relates must not be put into service until the relevant machinery into which it is to be incorporated has been declared in conformity with the Products Standard BSEN 13241-1.

Signature:-



Name:-

P A Whyatt
Managing Director

