

THE PRIORY DOOR GROUP LIMITED
Leading Specialists in Doors to the Trade



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**Manual Hand Chain Operated Roller Shutter Door -
(DOC) Declaration of Conformity, (DOP) Declaration
of Performance, Door Safety, Operation, Maintenance
and Installation Instructions**

TITAN



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CONSTRUCTION PRODUCTS DIRECTIVE

89 / 106 / EC

DECLARATION OF CONFORMITY

Machine description Rolling Shutter Door
Make Industrial Rolling Shutter
Year of Manufacture _____
Serial number _____
Manufacturer The Priory Shutter & Door Co. Ltd.

Is in conformity with the provision of the above EC directive

Testing undertaken at **Warrington A.P.T. Laboratories Ltd.**
Test report number **145643 and 146755a**

- EN 13241-1:2003 clause 4.4.3 Resistance to wind load
- EN 12424:2000 clause 4 Wind load classification
- EN 12444:2001 clause 7.1.2 Wind load test method
- EN 13241-1:2003 clause 4.2.2 Forces for manual operation
- EN 12604:2000 clause 4.4.1 Mechanical aspects
- EN 12605:2000 clause 5.1.5 Testing process
- EN 12453:2000 clause 5.3.5 Safety in use classification
- EN 13241-1:2003 clause 4.2.8 Safe opening of vertical moving doors
- EN 12604:2000 clause 4.3.4 Anti drop devices
- EN 12604:2000 clause 5.3.2 Out of balance forces
- EN 13241-1:2003 clause 4.4.3 Operating forces
- EN 12543:2000 clause 5.1 Safety in use of power operated doors
- EN 12445:2000 clause 5.2 Safety in use test method

The equipment above must not be put into service until the machinery into which it is to be incorporated has been declared in conformity with the provisions of the directive.

Signed _____
Date 02/12/2024
Name Gavin Cooper
Position Managing Director



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CONSTRUCTION PRODUCTS REGULATION
DECLARATION OF PERFORMANCE
No. 0002 CPR DoP 04-2013

1. Identification code: **Industrial Rolling Shutter, (Titan Range)**
Hand Chain, Manually Operated
2. Type, Batch and or Serial number: _____
3. Intended Uses: **External/Internal Door For Vehicle and/or Pedestrian Access**
4. Manufacturer: **The Priory Shutter & Door Co Ltd. 89-91 Rolfe Street, Smethwick, West Midlands, B66 2AY**
5. Authorised representative: **Not Applicable**
6. Assessment and verification of constancy of performance: **System 3**
7. Notified body and tasks: **Exova Warrington APT, a UKAS accredited Testing Laboratory (No. 0621) and EC Notified Body number (No, 1104). Key Industrial Park, Fernside Road, Willenhall, West Midlands, WV13 3YA, performed initial type tests under system 3 and issued test report No's; 145643/1, 145643/2, 145643/3 & 145643/4**
8. European Technical Assessment: **Not Applicable**
9. Declared performance

Essential Characteristics	Declared Performance	Harmonised Standard
Water Tightness	N.P.D.	EN 13241-1:2003 + A2:2016
Dangerous Substances	None	
Resistance To Wind Load	Class +5/-5	
Thermal Transmittance	N.P.D.	
Air Permeability	N.P.D.	
Manual Operation	Pass	
Safe Opening	Pass	
Definition of geometry of glass components	N.P.D.	
Mechanical resistance and stability	Pass	
Durability of Water Tightness, Thermal Resistance and Air Permeability against degradation	N.P.D.	

Specific Technical Documentation: **Not Applicable**

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed _____
Date 02/12/2024
Name Gavin Cooper
Position Managing Director



ROLLER SHUTTER DOOR SAFETY INSTRUCTIONS

THE FOLLOWING SAFETY INSTRUCTIONS MUST BE ADHERED TO AT ALL TIMES.

FAILURE TO DO SO COULD RESULT IN AN ACCIDENT/INJURY.

1. Keep openings clear of any obstructions.
2. Do not lean anything against the door curtain, guides, roller barrel assembly or coil casing.
3. Do not walk under a door whilst operating. Wait until the door is fully open.
4. Do not "rush" through a door that is closing. Wait for the door to fully close, and then re-open.
5. Do not operate a damaged door. If damaged, contact a service engineer immediately.
6. If the door becomes difficult to operate; cease using and contact a service engineer immediately.
7. Only use opening and closing equipment supplied with the door.
8. Do not suspend/anchor anything from the roller shutter.
9. Do not use the door to lift materials/personnel.
10. Do not remove the coil casing (if supplied) around the roller barrel assembly unless the door is stopped, the haul chain is secured and locked in position or the power is switched off at the isolator on electrically operated doors.
11. Do not force any form of locking.

IMPORTANT

Some types of roller shutter doors have counter balance springs under tension.
Adjustment or repair must only be carried out by a competent engineer.

Any work carried out on the electrical components of the roller shutter door must be by a qualified electrician, who must ensure the equipment is isolated prior to commencing any work.

Roller shutter doors must not be modified from their original design. If future modifications are required, the manufacturer must be consulted.

Locking mechanisms on electrically operated roller shutter doors are not recommended unless used in conjunction with an interlock switch which disengages the power whilst the door is in the locked position.



ROLLER SHUTTER DOOR OPERATING & MAINTENANCE

Manual Hand Chain Operated Roller Shutter Doors

All manually operated Hand Chain Roller Shutter Doors are supplied with an independent safety brake device that is installed at the opposite side to the gearing which engages and locks the barrel assembly in position should the door “drop” due to the unlikely event of a single component failure that would exceed the maximum allowed RPM of the brake assembly.

To ensure correct operation of a manual hand chain roller shutter door, the haul chain operation is to be carried out in a controlled manner.

Sudden snatching of the hand chain or letting the chain operate under an uncontrolled manner can result in damage to the chain and chain wheel components and can result in injury to the operator if the haul chain “snakes” uncontrollably.

Any damage to the door from the above misuse or injury to the operator will invalidate any warranty and we will not accept any liability for costs or injury caused.

To Open: -

- Release all forms of locking.
- Release the haul chain from the chain keep.
- Pull the haul chain downwards in the required direction, under control, until the door is fully open.
- Do not allow the curtain to “slam” against the stops at the top of the guide channels.
- Replace and lock in position the haul chain into the chain keep.

To Close: -

- Release the haul chain from the chain keep.
- Pull the haul chain downwards in the required direction, under control, until the door is fully closed.
- Replace and lock in position the haul chain into the chain keep.
- Engage all forms of locking.

Service and Maintenance

Like any other machinery, roller shutter doors require regular service and maintenance to ensure that they are working correctly and as designed.

Not all defects will have an immediate effect on the safety and operation of your door, but it will prove more cost effective to repair any defect earlier than risk a larger more costly repair at a later date.

Your roller shutter door will last many years with regular servicing and maintenance, but all components will wear and deteriorate over a period of time.

We recommend that your roller shutter doors are serviced at least once per year but recommend more frequent service visits if the doors are operated regularly.

Up to 10 operations per day – 1 visit every 6 months

Up to 30 operations per day – 1 visit every 3 months

Over 30 operations per day – 1 visit every 2 months

We recommend that you carry out your own daily inspection of your roller shutter doors, with some simple checks as follows: -

1. There is no damage to any parts of the door – Any damage to the door needs to be reported and suitable action taken to ensure the door works correctly.
2. The door operates freely and does not require excessive force to operate.
3. The door remains free from dust, dirt and grime build up which could affect the operation of the door, particularly in the guides. It is not recommended to use thick grease as this hardens over time and retains debris.



ROLLER SHUTTER DOOR INSTALLATION INSTRUCTIONS

Manual Hand Chain Operated Roller Shutter Doors

READ THESE INSTRUCTIONS FULLY BEFORE COMMENCING INSTALLATION.

Check for correct:

- Opening details in relation to those against the job specific drawing.
- Materials and specification as per the delivery note/checklist.
- Structure is square and fixing faces are in line and even and free from obstructions.
- Structure can carry the weight of the roller shutter door supplied (identified on spec. sheet attached to drawing).

1. **Face fixing arrangement:** position 50mm leg of continuous flag post angles against the structure in accordance with the arrangement and dimensions on the drawing. Mark out the fixing holes and drill the structure for the specified/supplied fixings.
2. **Between fixing arrangement:** position 50mm leg of continuous between wall angles against the reveals of the structure in order to create a fixing face with the 100mm leg. Mark out and drill the structure for the specified/supplied fixings. Position 50mm leg of continuous flag post angles against the 100mm leg of the between wall angles in accordance with the detail on the drawing. Mark out the fixing holes and drill the 100mm leg of the between wall angles for the specified/supplied fixings. Note – between wall angles are intentionally left un-drilled so that if the reveal is “running out” the roller shutter flag posts can still be fitted vertical.
3. Secure the end-plates to the flag post angles at high level using M10 or M12 domed head fixings with nylock nuts supplied.
4. When angles are secured use a spirit level and measure to check that;
 - The angles are square and vertical and also level horizontally across the top of the end-plates.
 - The dimension between the end-plates is correct i.e. pin length.
5. Slide the safety brake mechanism over the plain end keyed shaft on the barrel assembly, ensuring that the brake will lock on inertia when rotated in the **downward** direction. Secure in place by fitting the provided counter-sunk bolt and washer to the end of the keyed shaft. **Note – failure to do this could cause a serious accident.**
6. Using suitable lifting equipment, lift the barrel assembly and place the gear end shaft into the “U” cup on the end-plate and safety brake onto the foot mounted angle. Bolt the safety brake to the angle using M10, M12 or M16 bolts & nylock nuts provided. Insert the split pin across the top of the “U” cup and retaining bolt through the outside of the gear end plate and into the tapped end of the shaft and tighten. **Note – failure to do this could cause a serious accident.**
7. If the number of spring tension turns labelled on the barrel is denoted in half numbers then fit the barrel with the top lath fixings pointing down, facing the floor. If in whole numbers then fit with the fixings pointing up facing the roof.
8. For double reduction geared doors (16:1 ratio), mount the intermediate compounded plate wheel and drive sprocket stub shaft to the inside of the gear end-plate and tighten with the M16 nylock nut on the outside of the plate. Then mount the chain wheel stub shaft to the inside of the gear end-plate and tighten with the M16 nylock nut on the outside of plate. Ensure gear alignment from the chain wheel drive sprocket to the intermediate compounded plate wheel and from the intermediate compounded drive sprocket to the barrel plate wheel. See drawing below for washer, chain guide, compounded plate wheel and chain wheel arrangement.
9. Fit the haul chain through the chain guide and over the nylon chain wheel. Split and open a link. Join the ends together and close the link to form one continuous length of chain.



ROLLER SHUTTER DOOR INSTALLATION INSTRUCTIONS

Manual Hand Chain Operated Roller Shutter Doors

10. Fit the drive chain(s) around the barrel plate wheel(s) and nylon chain wheel drive sprocket(s) utilising the split link(s) provided. For correct chain tension, slide the stub shafts on the slots on the roller shutter door end-plate.
11. Fit the "chain keep" to the face of the structure or the 75mm leg of the gear end flag post angle at an easily accessible height (approx 1000mm – 1200mm from F.F.L.). Be sure to lock the haul chain into the "chain keep" and secure.
12. Apply tension to the barrel via the haul chain, turning in the direction of the arrow and by the number of turns as indicated on the barrel. Be sure to lock the haul chain into the "chain keep" and secure.
13. Secure the top section of the curtain to the barrel using the continuous slotted lath and M10 nuts and washers provided. If the door is internally fitted then the curtain should be fitted "standard coil" with the concave face of the lath against the barrel assembly. If the door is externally fitted then the curtain should be fitted "reverse coil" with the convex face of the lath against the barrel assembly. Once complete, fit the black plastic cover caps (provided) over the M10 nuts to protect the first "wrap" of the coil.
14. Twist back an end-lock at the bottom of the curtain section and slide into place the next section of curtain. Repeat this operation until all sections are in place and the bottom rail section is fitted last. Ensure that all end-locks are twisted back into their **correct** position and that all sections follow the relevant "standard coil" or "reverse coil" pattern.
15. Check the tension of the spring barrel by raising and lowering the curtain via the haul chain from the chain wheel, taking care not to allow the bottom of the curtain to pass the opening height as spring tension would be lost.
16. If the curtain is difficult to raise but easy to lower, remove the bottom rail and raise the curtain and secure to the barrel with rope. Make one further turn to the barrel in the direction of the arrow to increase the tension and then proceed after re-fitting the bottom rail.
17. If the curtain is difficult to lower but easy to raise, remove the bottom rail and release one turn of the tension from the barrel by allowing the barrel to be rotated one turn in the opposite direction to the arrow, then proceed after re-fitting the bottom rail.
18. When satisfied that the balance is correct, fit the guide channels to the flag post angles using the M8 domed head fixings provided and lightly lubricate the inside faces of the channels with a layer of grease.
19. Check that the curtain operates freely within the guides and that any locking mechanisms operate correctly.
20. If supplied, fit the hood to the end-plate cleats using the pop rivets provided. Larger hoods will be supplied in multiple telescopic sections labelled "small" and "large". Measure the overall end-plate width prior to pop riveting the telescopic sections together to ensure an accurate fit.
21. Fit any additional front fascia panels using the same method with the steel pop rivets supplied.
22. Fit all the appropriate labels provided. The customer must also be informed of any residual Health and Safety Risks.



ROLLER SHUTTER DOOR INSTALLATION INSTRUCTIONS

Manual Hand Chain Operated Roller Shutter Doors

Tick off the checklist below (where applicable) as each test is carried out.

Guides Vertical	
Barrel Retaining Bolt and Split Pin Fitted	
Tension Correct	
Lock Operational	

Barrel Level	
Gear Alignment	
Curtain Operates Freely	
Canopy Level	

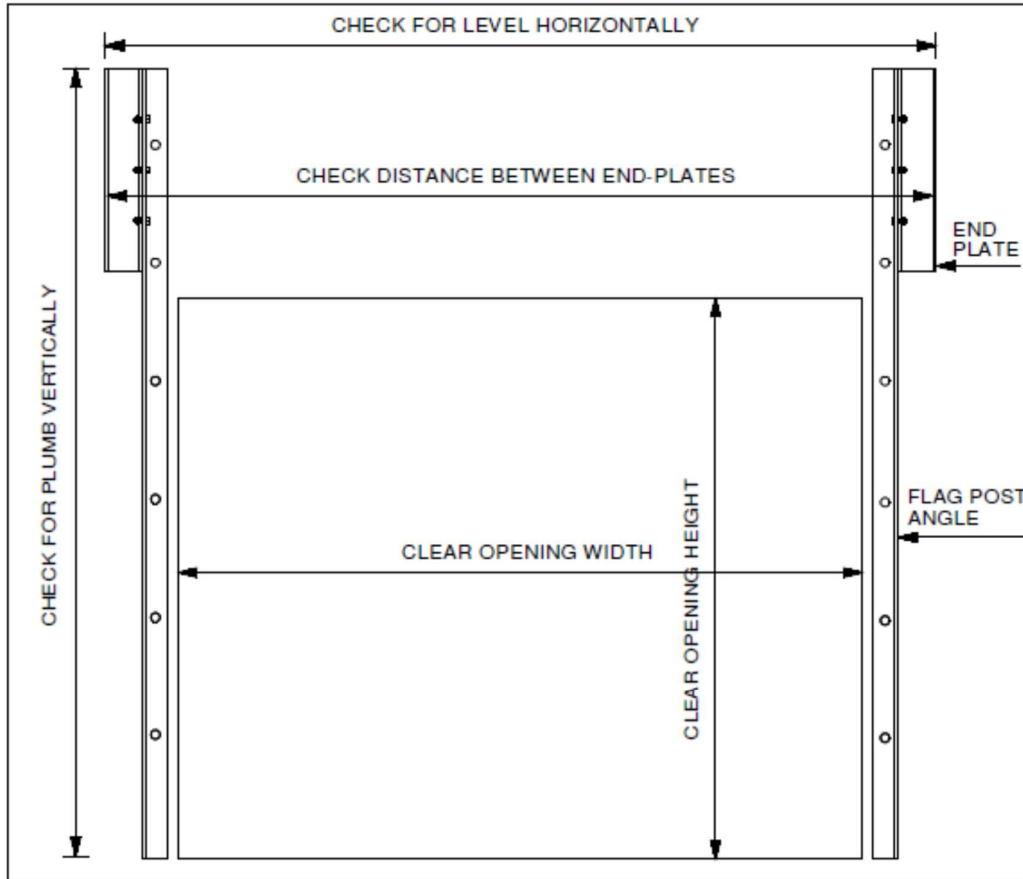
Sign and date the bottom of this page and put your name in capitals below, if this is to be the retained record of installation.



ROLLER SHUTTER DOOR INSTALLATION DIAGRAM

Manual Hand Chain Operated Roller Shutter Doors

DIAGRAM 3A





DOUBLE REDUCTION HAND CHAIN SET-UP DIAGRAM

Manual Hand Chain Operated Roller Shutter Doors

DOUBLE REDUCTION CHAINWHEEL ASSEMBLY SET UP INSTRUCTIONS

