

BATHROOM DOOR

OPERATION AND MAINTENANCE MANUAL



SAFEHINGE PRIMERA[®]
LIFESAVING DETAILS

Use of Operation and Maintenance Guidelines

These guidelines are to aid the operation and maintenance of products supplied by Safehinge Group Inc. It is essential that the guidelines are followed to ensure the products function correctly and do not jeopardize the safety of staff or service users.

The operation manual provides a general overview of product use, more detail can be found in product specific documents.

The maintenance manual outlines procedures to ensure products are maintained correctly and that the product continues to function safely. The level of maintenance will depend on the frequency of use and severity of the environment the product is installed within. The onus is on the building owner/employer/occupier to ensure that the maintenance routine is carried out by suitably qualified and competent individuals.

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The Safehinge Group Inc's Bathroom Door is protected by intellectual property rights and is patent protected.

Safehinge Primera (SHP) is a brand of Safehinge Group Inc and will be referred to throughout this document.

Disclaimer

Other than death or personal injury caused by negligence and other liabilities which may not be excluded or limited by law, Safehinge Group Inc excludes any and all liability for (a) failure to follow the guidelines or other technical documentation in any manner; and/or (b) defective or inaccurate installation and/or maintenance of the product and/or any of its components.

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BATHROOM DOOR PRODUCT RANGE



LIGATURE-RESISTANT BATHROOM DOOR (<11LBS LOAD RELEASE)



LIGATURE-RESISTANT BATHROOM DOOR (<20LBS LOAD RELEASE)

LIGATURE-RESISTANT BATHROOM DOOR (<11LBS LOAD RELEASE)

PRODUCT OUTLINE

Providing privacy and dignity without compromising on safety, the load release bathroom door solves the biggest unsupervised risk in behavioral health.

With the soft, lightweight leaves detaching if a weight of less than 11lbs is applied, the door maintains patients' sense of self worth whilst still allowing staff to carry out head and feet observations.



KEY FEATURES

Load release - Doors detach when a weight of less than 11lbs is applied to the door - eliminating ligature points created by the meeting of two hard surfaces.

Two leaves - By having two leaves which are available in medium, wide and extra wide widths, this is an off-the-shelf product that does not require made-to-order sizing and specification like others on the market.

Self-locating magnets - Allow for easy leaf reattachment in the case of an incident and remove the need to bend down to reattach the bottom pivot. Magnets are securely housed in robust wall mounts.

Improved pivots - The 34% lighter pivots increase the ligature resistance performance of the bathroom door and further reduce the risk of weaponization.

Privacy screen - The two leaves create a screen for patients whilst using the bathroom which still allow for head and feet observations.

Leaf design options - Choose from a range of leaf design options including two original artworks from arts & behavioral health charity Hospital Rooms.

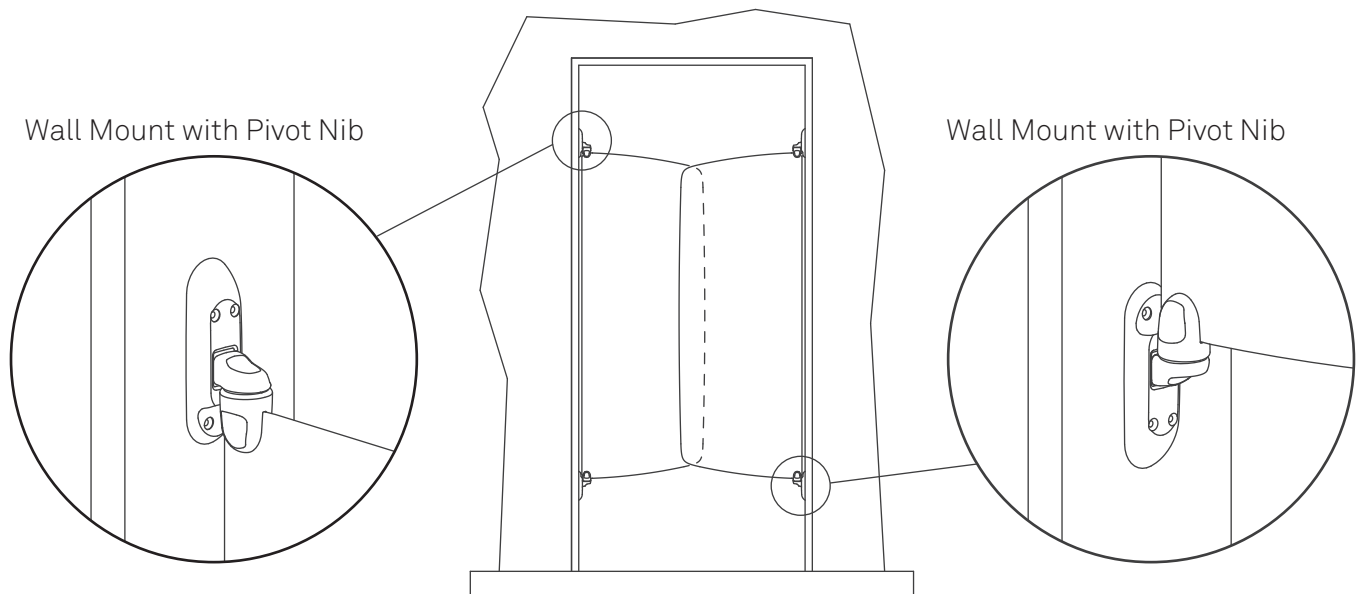
Mechanical Performance

Safehinge Primera products have been rigorously tested to ensure they are suitable for behavioral health environments. For more details on the mechanical performance visit www.safehingeprimera.com/resources or contact Safehinge Primera at inquiries@safehingeprimera.com or +1 617.898.0700.

Ligature Performance

The door leaves will release at a load of <11lbs. It is essential that the product has been installed and maintained as stated in the installation instructions and O&M manual to ensure the ligature performance is met for the lifetime of the product.

PRODUCT DIAGRAM



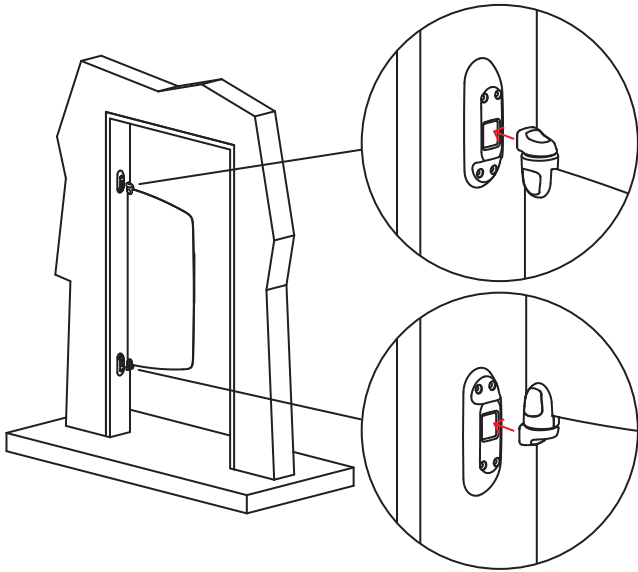
PRODUCT SCOPE

- The Bathroom Door is a load release, saloon style door designed for behavioral health environments.
- Door leaves have been tested the following standards:
 - ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials
 - BS EN 1021-1:2006 smouldering cigarette
 - BS EN 1021-2:2006 match flame equivalent
 - BS 5852: 1982 Part 2
 - BS 7176:2007+A1:2011 Low Hazard
 - BS EN 597-1-1995 smouldering cigarette
 - BS EN 597-2: 1995 match flame equivalent
- Mechanical Performance - Safehinge Primera products have been rigorously tested to ensure they are suitable for behavioral health environments. For more details on the mechanical performance visit www.safehingeprimera.com/resources or contact Safehinge Primera at inquiries@safehingeprimera.com or +1 617. 898. 0700.
- Ligature Performance - The door leaves will release at a load of <11lbs. It is essential that the product has been installed and maintained as stated in the installation instructions and O&M manual to ensure the ligature performance is met for the lifetime of the product.
- Please be aware that the Bathroom Wall Mount and Pivot contains strong magnets. These are securely fixed to the opening and have been thoroughly tested with patient safety in mind to ensure the magnets cannot be accessed once installed. Before installation, it is critical that anyone handling the product is aware of the magnet safety information - SHP document HSN003.

RESET PROCEDURE

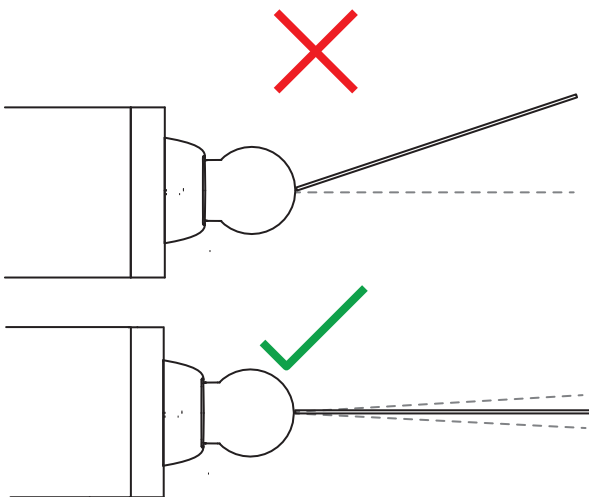
To reattach a leaf follow the steps below.

Step 1



To hang the door, offer up a Door Leaf to the top and bottom Wall Mounts. It will automatically connect.

Step 2



Test the leaf is attached properly by opening to 90 degrees and checking it returns to the closed position.

LIGATURE-RESISTANT BATHROOM DOOR (<20LBS LOAD RELEASE)

PRODUCT OUTLINE

Providing privacy and dignity without compromising on safety, the load release bathroom door solves the biggest unsupervised risk in behavioral health.

With the soft, lightweight leaves detaching if a weight of less than 20lbs is applied, the door maintains patients' sense of self worth whilst still allowing staff to carry out head and feet observations.



KEY FEATURES

Load release - Doors detach when a weight of less than 20lbs is applied to the door - eliminating ligature points created by the meeting of two hard surfaces.

Two leaves - By having two leaves which are available in medium, wide and extra wide widths, this is an off-the-shelf product that does not require made-to-order sizing and specification like others on the market.

Improved bottom pivot - The bottom pivot now uses a self-locating magnet - meaning it clicks into place easily without the need to bend down and reattach the leaf if it detaches.

Privacy screen - The two leaves create a screen for patients whilst using the bathroom which still allow for head and feet observations.

Leaf design options - Choose from a range of leaf design options including two original artworks from arts & behavioral health charity Hospital Rooms.

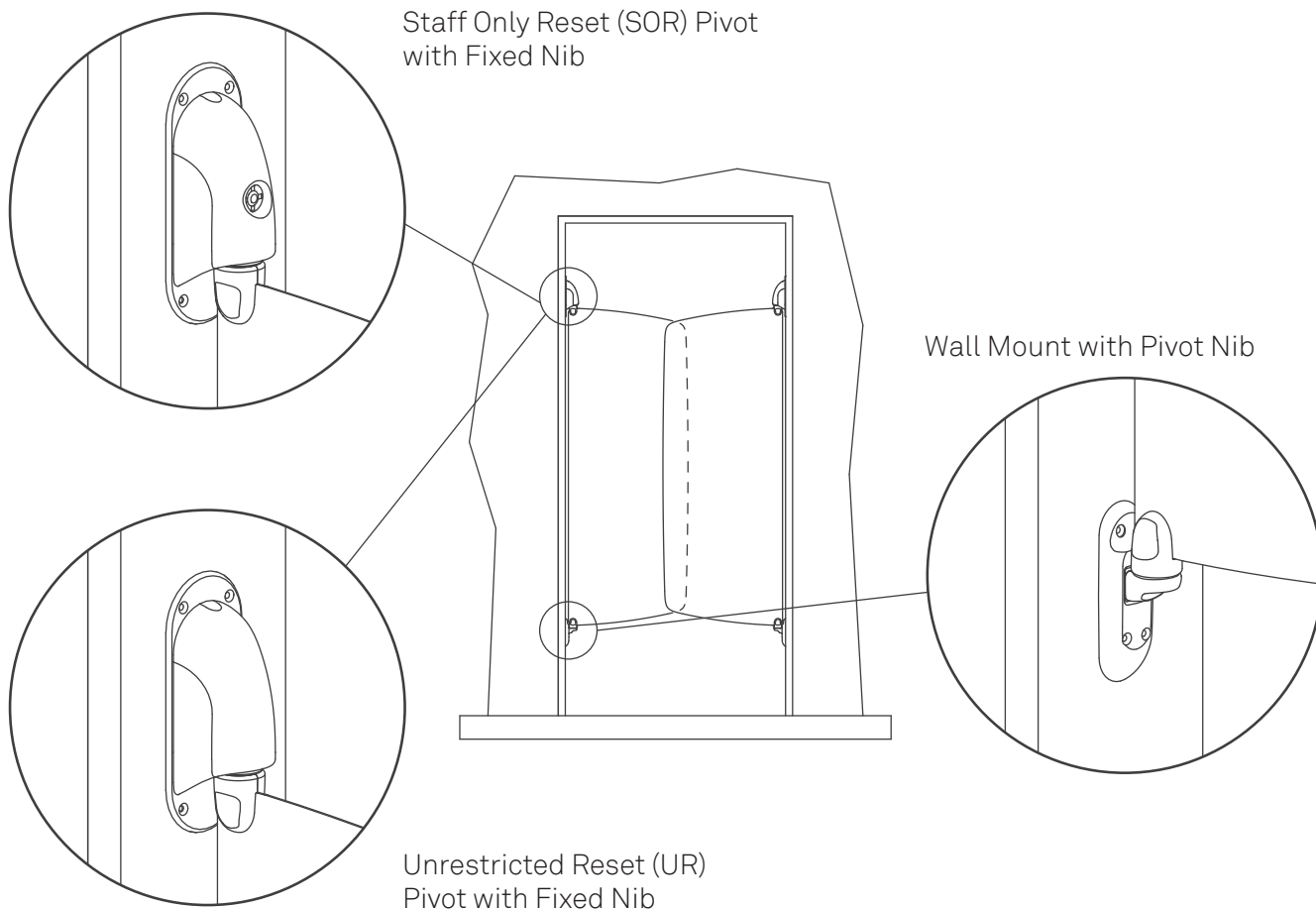
Mechanical Performance

Safehinge Primera products have been rigorously tested to ensure they are suitable for behavioral health environments. For more details on the mechanical performance visit www.safehingeprimera.com/resources or contact Safehinge Primera at inquiries@safehingeprimera.com or +1 617.898.0700.

Ligature Performance

The door leaves will release at a load of <20lbs. It is essential that the product has been installed and maintained as stated in the installation instructions and O&M manual to ensure the ligature performance is met for the lifetime of the product.

PRODUCT DIAGRAM



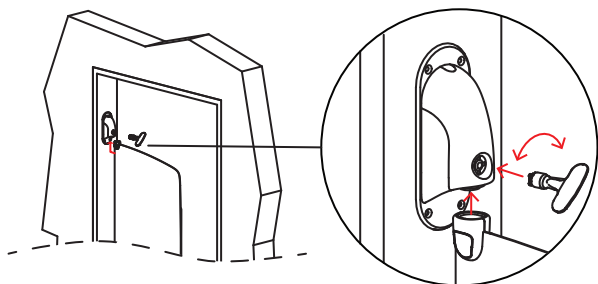
PRODUCT SCOPE

- The Bathroom Door is a load release, saloon style door designed for behavioral health environments.
- The Product is available in two variants, Staff Only Reset (SOR) and Unrestricted Reset (UR). A Safehinge Primera Lifeline key is required to reset an SOR doorset that has been removed from the wall mounted pivot. No additional tools are required to reattach a UR version.
- Door leaves have been tested the following standards:
 - ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials
 - BS EN 1021-1:2006 smouldering cigarette
 - BS EN 1021-2: 2006 match flame equivalent
 - BS 5852: 1982 Part 2
 - BS 7176:2007+A1:2011 Low Hazard
 - BS EN 597-1-1995 smouldering cigarette
 - BS EN 597-2: 1995 match flame equivalent
- Mechanical Performance - Safehinge Primera products have been rigorously tested to ensure they are suitable for behavioral health environments. For more details on the mechanical performance visit www.safehingeprimera.com/resources or contact Safehinge Primera at inquiries@safehingeprimera.com or +1 617. 898. 0700.
- Ligature Performance - The door leaves will release at a load of <20lbs. It is essential that the product has been installed and maintained as stated in the installation instructions and O&M manual to ensure the ligature performance is met for the lifetime of the product.
- Please be aware that the Bathroom Wall Mount and Pivot contains strong magnets. These are securely fixed to the opening and have been thoroughly tested with patient safety in mind to ensure the magnets cannot be accessed once installed. Before installation, it is critical that anyone handling the product is aware of the magnet safety information - SHP document HSN003.

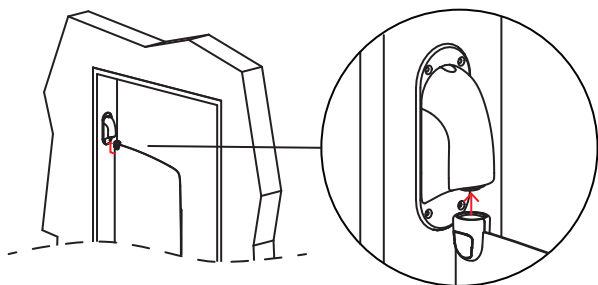
RESET PROCEDURE

To reattach a leaf follow the steps below.

Step 1



OR



Staff Only Reset

To hang the Door Leaf the internal magnet needs to be activated.

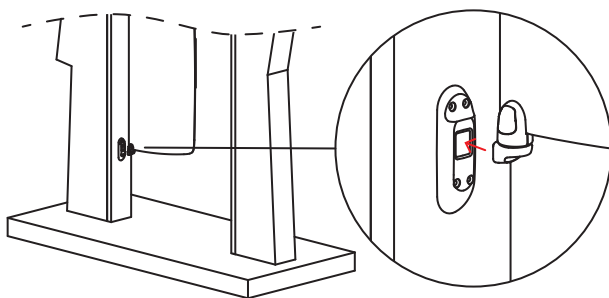
Offer up a Door Leaf to the Pivot in the closed position. While holding the Door Leaf up to the Pivot so that the two metal parts are touching, insert a 'Lifeline' key into the Pivot as shown.

Turn the key clockwise or anti-clockwise to activate the magnet. An audible "Click" sound will be heard. The Door Leaf will then be retained.

Unrestricted Reset

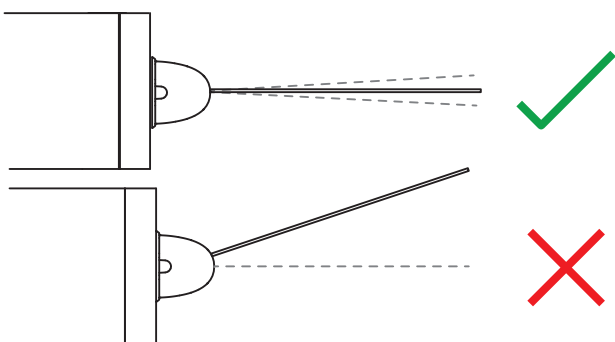
To hang the door, offer up a Door Leaf to the Pivot in the closed position. Hold the Door Leaf up to the Pivot so that the two metal parts are touching and sit flush. The Door Leaf will be automatically retained.

Step 2



Once the Door Leaf has been attached to the Pivot, locate the bottom of the Door Leaf on to the Wall Mount. It will automatically connect.

Step 3



Test the leaf is attached properly by opening to 90 degrees and checking it returns to the closed position.

MAINTENANCE MANUAL

The maintenance of SHP products is essential to proper function and safety and must be completed as specified. Any maintenance work must be carried out by suitably qualified and competent individuals.

TYPES OF MAINTENANCE

It is important that all products are installed correctly as per the instructions to ensure safe and effective performance. To maintain this level of performance our products require a range of different checks to ensure they continue to meet the highest safety standards.

Visual Inspection



Visual checks on the product and surrounding door/frame/environment looking for wear, damage and general condition

Mechanical Checks



Consists of checking that the product's mechanical elements function properly without any binding or undue force required. Check that parts can move freely without abnormal resistance or binding

Fixings Check



Fixings need to be checked regularly and tightened when necessary to ensure products do not become loose and provide potential ligature/weaponization risks. This also checks that no projection of fixings prevent components from moving freely

Cleaning







The product should be regularly cleaned in order to maintain the product finish and function.

The correct cleaning method should be used to ensure products are not damaged

MAINTENANCE SCHEDULE

It is essential that the customer implements a regular maintenance regime to support the correct function of all our products. **The frequency of checks recommended is a guideline and should be commensurate with frequency of use/severity of the environment it is installed in.**

The following section outlines checks that should be carried out on the Bathroom door. **If any product fails any of these tests, please contact your maintenance provider.**

	Product	Maint. Type	Maintenance
Weekly These items should be checked weekly and adjustments made where necessary.	All Bathroom Door Products		Visual Inspection - A visual inspection of the product and the surrounding environment to check there is no signs of damage. Check that all hardware is flush to the wall with no ligature risks.
	All Bathroom Door Products		Cleaning - All parts can be cleaned with a solution of 10,000ppm chlorine disinfectant. The leaf should be cleaned and then immediately wiped dry to prevent staining.
Monthly In addition to the weekly schedule, these items should be checked on a monthly basis and adjustments made where necessary.	All Bathroom Door Products		Fixings Check - Ensure the fixings are holding the pivot and wall mount securely in place.
	All Bathroom Door Products		Mechanical Checks - Check that the doors swing open without abnormal resistance or binding. The doors should return to the closed position after without requiring any force applied.

Post-Abuse

All of our products have been tested to withstand physical abuse, however, **it is essential that all elements of the product are checked following attack or abuse.**

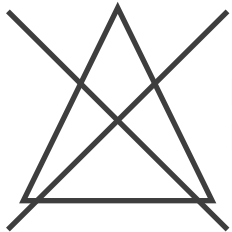
PRODUCT SPECIFIC MAINTENANCE

LIGATURE-RESISTANT BATHROOM DOOR (<11LBS LOAD RELEASE)

Cleaning

Do not use solvents, neat bleach, phenolic based cleaning solutions or abrasive products to clean the door leaves or wall mounts.

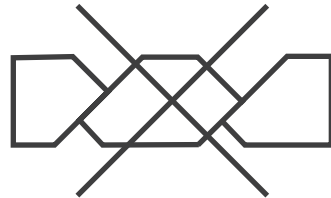
For wall mounts and leaves - All surfaces to be wiped down with cleaning wipes or a disposable soft cloth moistened with a mild detergent or disinfectant* diluted in warm water. The wipe/cloth should be changed during the cleaning process if it becomes soiled.



No Neat Bleach



Hand Wash

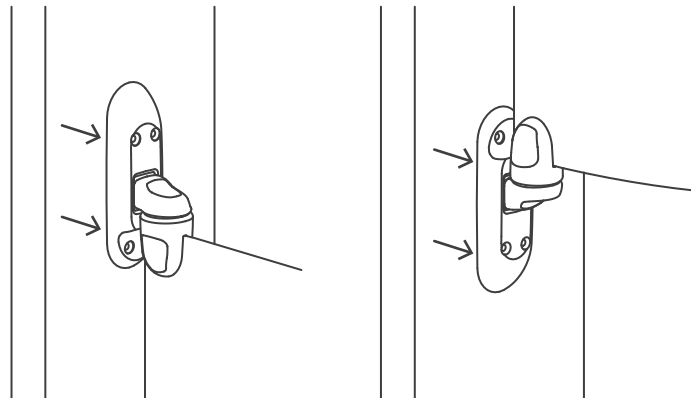


Do Not Wring Leaves

*Disinfectant: A solution of 10,000ppm chlorine disinfectant is permitted for infection control. The leaf should be cleaned and then immediately wiped dry to prevent staining.

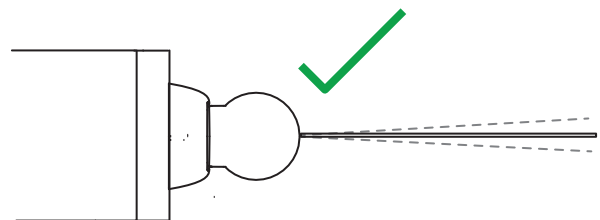
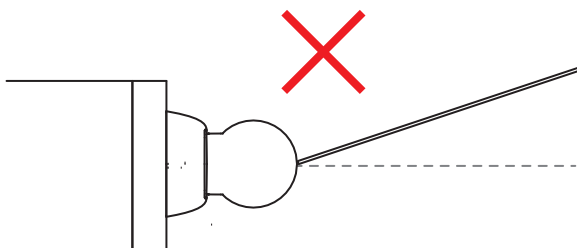
Fixings Check

Inspect the product to check that the fixings have not come loose, and that the wall mounts remain flush to the wall. Gaps between the product and wall create a ligature risk.



Mechanical Checks

Check the operation of the pivots by opening each door to 90 degrees. The doors should return smoothly back to within 5 degrees of the center position.

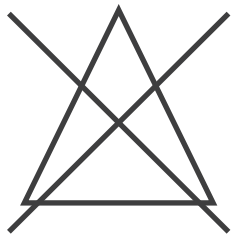


LIGATURE-RESISTANT BATHROOM DOOR (<20LBS LOAD RELEASE)

Cleaning

Do not use solvents, neat bleach, phenolic based cleaning solutions or abrasive products to clean the door leaves or pivot and wall mount.

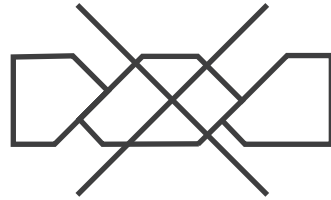
For frame pivots and leaves - All surfaces to be wiped down with cleaning wipes or a disposable soft cloth moistened with a mild detergent or disinfectant* diluted in warm water. The wipe/cloth should be changed during the cleaning process if it becomes soiled.



No Neat
Bleach



Hand
Wash

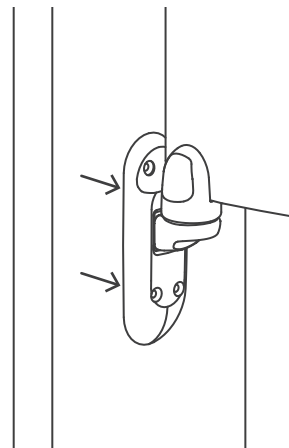
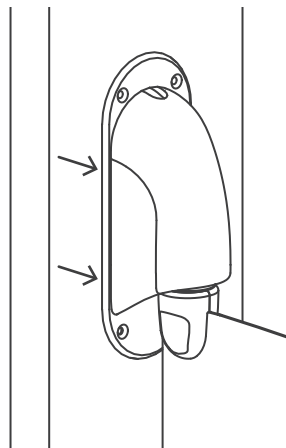


Do Not
Wring
Leaves

*Disinfectant: A solution of 10,000ppm chlorine disinfectant is permitted for infection control. The leaf should be cleaned and then immediately wiped dry to prevent staining.

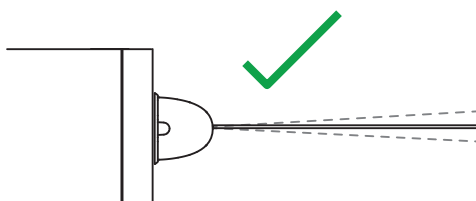
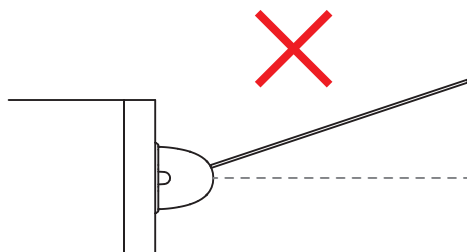
Fixings Check

Inspect the product to check that the fixings have not come loose, and that the pivot and wall mount remain flush to the wall. Gaps between the product and wall create a ligature risk.



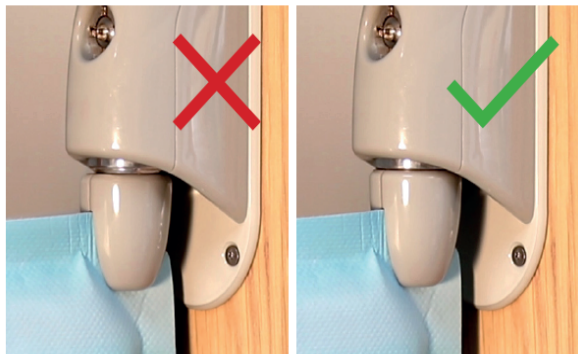
Mechanical Checks

Check the operation of the pivots by opening each door to 90 degrees. The doors should return smoothly back to within 5 degrees of the center position.



TROUBLESHOOTING

The following troubleshooting guide provides basic diagnostic of potential issues

Problem	Check	
<11lbs load release: Door Leaf does not return to center	Check Pivot spacing. The distance between top and bottom Pivot fixing holes should be $52\frac{3}{16}" \pm 1/16"$ (1326mm \pm 1mm) .	
<20lbs load release: Door Leaf does not return to center	Check top nib alignment to the Pivot when door is in the closed position. Pivot should sit flush to the top nib.	
	Check Pivot spacing. The distance between top and bottom Pivot fixing holes should be $52\frac{1}{16}" \pm 1/16"$ (1322mm \pm 1mm) .	
<20lbs load release: Key jamming or not activating magnet (Staff Only Reset only)	Ensure that the key is firmly pressed in to the keyway and is perpendicular to the Pivot while turning. Turn the key in both directions with the Door Leaf offered up to the Pivot. If the problem persists please contact the Safehinge Primera technical team.	

SAFETY INFORMATION

SAFETY NOTICES

1. Read, follow and keep these instructions
2. Heed all warnings
3. Only use attachments/accessories specified by SHP

Liability

Safehinge Primera does not accept any responsibility for damage caused by improper handling of the supplied magnetic products. The magnets used with the product have a surprising amount of power and if handled incorrectly can be very dangerous. Please ensure anyone handling these products has read and understood the provided warnings.

Risks of breaking or leaping together

The magnets within the product are extremely strong and could attract to each other or to any metallic surface with extreme speed and force which could damage the product or cause injury.

Do not disassemble the product

The magnets are contained within the product. Do not disassemble the product as this could lead to magnets leaping from the product which could cause injury. Even within the housings, the magnetic force is still strong enough to cause injury.

Heart pacemakers

Keep magnets away from heart pacemakers. The operation of heart pacemakers will be affected by the close proximity of a magnet. Magnets can set a pacemaker working in a way that is not suitable for the user and that might affect their health.



Children

DO NOT allow children to handle this product as they are too powerful, will cause trapping injuries and can be fatal if swallowed.

Magnetically sensitive items

Keep the product a safe distance (2"+) away from all objects that can be damaged by magnetism including mechanical watches, CRT monitors and televisions, credit cards diskettes and other magnetically stored media.

COMPLIANCE

FIRE PERFORMANCE

The Bathroom Door is fire rated to

- ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials
- BS EN 1021-1:2006 smouldering cigarette
- BS EN 1021-2: 2006 match flame equivalent
- BS5852: 1982 Part 2
- BS 7176:2007+A1:2011 Low Hazard
- BS EN 597-1-1995 smouldering cigarette
- BS EN 597-2: 1995 match flame equivalent

For more information regarding certificated test evidence please contact SHP

t: +1 617. 898. 0700.

e: inquiries@safehingeprimera.com

SUPPORT

REPORTING A FAULT

Issues should be reported to your maintenance provider. If you need manufacturer's support please contact SHP: inquiries@safehingeprimera.com or +1 617.898.0700.

SPARES

Replacement leaves are available from Safehinge Primera. Contact SHP for details and support:

inquiries@safehingeprimera.com or +1 617.898.0700.

MANUFACTURER'S WARRANTY

Refer to document SCT056 for details of Safehinge Primera Product Warranties. Contact SHP to obtain the warranty document: inquiries@safehingeprimera.com or +1 617.898.0700.