



CERTIFICATE OF CONFORMITY  
No. 1121-CPD-AB0011



## **Guidance for the Maintenance of the Adams Rite 4591 and 4596 Series Emergency Push Pads Escape Devices**

### ***The Range in General***

All of the Adams Rite single and two point push pad emergency escape devices have been tested in accordance with BS EN179:1998+A1: 2001 and if properly maintained are capable of providing many years of reliable service. As with any hardware, lack of proper maintenance and physical abuse will lead to a shorter life span and may impair the operation of the product. It is imperative that all Adams Rite emergency escape hardware receives proper and regular maintenance in accordance with the recommendations outlined in this document. It is recommended that a company competent in the maintenance of doors and architectural hardware should carry out maintenance beyond the monthly checks as well as any trouble-shooting.

**Although the 4591/4596 may be configured to operate as either a push or pull pad, Adams Rite do not recommend that pull versions are reconfigured by the customer to operate on emergency push pad application conforming to BS EN 179:1998+A1: 2001. Such an application requires the box, the product and accompanying literature to carry certain information as per BS EN 179:1998+A1: 2001. Applications without this information and not using the correct strike plate will not meet the requirements of the standard and Adams Rite accepts no responsibility should such a situation occur. It is therefore recommended that customers requiring an emergency push pad conforming to BS EN 179:1998+A1: 2001. order a correctly configured unit.**

### ***4591 and 4596 Series***

The 4591 series is used in conjunction with 4710 series deadlatch to create a mortised single point deadlatch emergency escape device with the optional facility of a round screw in cylinder from the outside and is designed for commercial aluminium door applications. With the addition of the 4590-00-628 mounting plate and substituting the 4710 deadlatch for a 4720 variant this hardware can be fitted to a timber door application. The 4596 series is the equivalent for commercial aluminium applications where a 17mm Euro profile cylinder is required. Both types feature an automatic dead latching facility that functions on maximum air gap of 6mm. Adams Rite recommends that both the 4591 and 4596 series be used in conjunction with a quality door closer conforming to BS EN 1154.

**This product only conforms to BS EN 179:1998+A1: 2001 if it is used with the Adams Rite range of deadlatches and the 8460 strike plate series, or the Adams Rite 7108/7128 electric strike releases.**

## **Maintenance Procedure**

### ***Frequency***

As with any architectural product, the frequency of operation and the environment of the application will influence the frequency of maintenance. A corrosive environment such as a swimming pool, close proximity to the sea as well as high usage will mean that the hardware will require the maintenance interval to be increased from annually to biannually.

In all situations it is important to consider the application as a whole rather than just the emergency escape device. The fit of the door with in its frame and the performance of the door closer will influence the operation of the emergency escape device. Therefore the door and all of its hardware should be inspected, as part of the maintenance procedure to ensure that they are performing satisfactorily.

### ***Monthly***

- Operate the emergency escape device to ensure satisfactory operation i.e. a clean release of the locking points as the bar is operated, unimpeded opening of the door and the successful engagement of the latch as the door closes. This should occur on each operation.
- Ensure that the strike plate is free from obstruction.

### ***Annually (biannually for high traffic and corrosive conditions)***

- Carry out normal monthly checks.
- Check the latch bolt depresses easily without using the bar and the dead latching facility is functioning. Check the dead latching operation by depressing the dead latching snib, which is

- located below the latch bolt and press the latch bolt itself, which now should not move.
- Remove the push pad from the escutcheon and check that the fixing screws retaining the escutcheon onto the vertical rod mechanism is securely fastened.
- Check all other fixings (including the strike plate) are securely fastened.
- Lubricate all moving parts with grease that is silicone-based.

### ***Trouble-Shooting***

- The emergency escape device does not release cleanly easily (see Section A).
- The emergency escape device does not automatically relock under the closing action of the door closer (see Section B).

### ***Section A***

1. Check the door is not impeded in any way, i.e. the door has dropped, the weather-stripping is over compressed, etc.

### ***Section B***

1. Check the closing and latching speed of the door closer is adjusted so as to overcome the resistance offered by the strike and door seals/weather-stripping. It is equally important that the speed of the closing action is not excessive causing the door to slam.