Preload

and the

UltraLine solution
What is Preload?

Simply stated, door preload is pressure exerted on a door, and in turn transferred to the keeper of the electric strike by the latch.
When pressure is applied to some models of electric strikes, the coil may not have the ability to mechanically release the strike keeper, because the pressure binds it against the latch.

Even a small amount of this pressure, termed “preload” can cause problems in the functioning of some electric strikes. Door preload can prevent the smooth unlocking of the electric strike or even disable a strike – preventing a door from being opened.

With a features set unmatched in the industry, the UltraLine 7400 Series electric strikes by Adams Rite addresses door preload problems and much more.
What Causes Preload?
The UltraLine 7400 Series electric strikes can release electrically with up to 30lbs. of door preload that can disable other electric strikes.

A number of conditions can cause door preload, including:

- Stack pressure caused by HVAC systems
- Misaligned strike and lockset
- Warped wood doors
- Damaged or bent metal doors
- Thick door seals or heavy weatherstripping

A strike that buzzes erratically or opens only intermittently could be showing signs of a preload problem.

If preload pressure causes a strike or multiple strikes to malfunction, many access and security issues arise.
An electric strike failing to release when energized is not the only problem preload can cause.
If the power to the strike is interrupted, either by accidental or deliberate means, strong preload pressure can cause a strike in fail safe mode not to function.

If a serious preload condition is present, when the strike is activated the pressure will move the doors slightly into the open position, leaving the door unlocked – and the building vulnerable.

Using jaw inserts of various sizes, the UltraLine 7400 Series electric strikes are adjustable to compensate for door and frame related preload and security problems.
The **Solution** for
Preload Problems
A new line of premium electric strikes from Adams Rite addresses these preload problems and more.

**Introducing the UltraLine 7400 Series**

UltraLine electric strikes have a features set that is unmatched in the industry.

With a compact design and a robust stainless steel split-jaw design that has over 2,000lbs. of holding force, UltraLine strikes can release electrically with up to 30lbs. of door preload.

New technology allows the 7400 Series to operate at 12, 16 and 24 volt AC/DC with one solenoid. UltraLine strikes can also be adjusted to compensate for door and frame conditions.

Some of the underlying problems that cause door preload, such as pressure from air conditioning, can’t be practically or easily corrected.
Adams Rite’s New

7400 Series

Electric Strikes

Adams Rite is world renowned for innovative and reliable door hardware. Our latest offering, the UltraLine 7400 Series, casts that reputation in solid steel.

Fully featured:
- Over 2,000 lbs. of holding force
- Opens electrically with up to 30 lbs. of preload
- Compact size – 1 1/16" overall depth
- Single solenoid operates at 12, 16 and 24 volt AC/DC power
- Field selectable – fail-secure or fail-safe
- Compatible with narrow stile, key-in-knob and rim exit device latches
- Retrofits with all previous Adams Rite electric strikes
- Exceeds ANSI/BHMA Grade 1 standards
- Low current draw
- Five year limited warranty

Options:
- Monitoring signal switches
- Lip extension kits
- Modular kits
- Power supply
- Transformers
- Piezo horn for audible indication
- Variety of faceplates and finishes
- Quick and easy Electrolynx connector

For more information contact:
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