

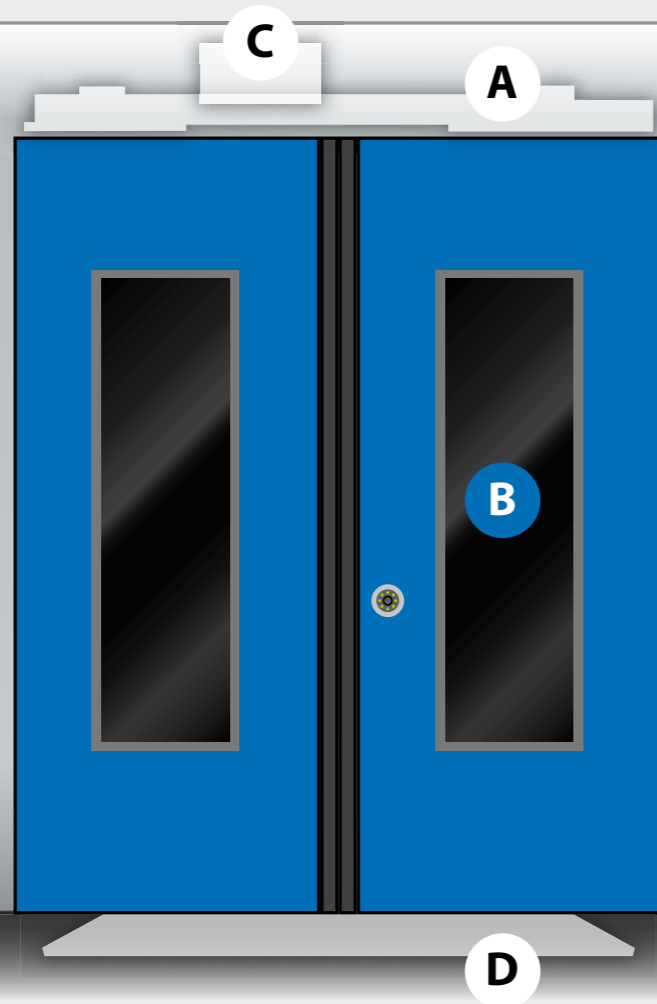
IFE AN/AI DOOR LEAVES

# lea[door]ship



**MAXIMUM PASSENGER COMFORT:  
IFE AN/AI DOOR LEAVES**

# IFE AN/AI DOOR LEAVES THE FUTURE HAS ARRIVED



**A**

## IFE E4 Door Drive Unit

**Smaller, lighter, stronger.** Compact design, reduced to the essentials, mature and proven technology along with easy installation and reduced maintenance effort are setting new standards.

**B**

## IFE AN/AI Door Leaves

**Maximum passenger comfort.** The new door leaves stand out thanks to a sound insulation value which is improved by a factor of 3 to 4, to a heat transfer coefficient reduction of up to 50% and to a weight reduction.

**C**

## IFE FLEX Control

**Small, universal, reliable.** The new door control unit features a compact design and a smart all-voltage energy supply with adaptive operating modes, reducing the total power loss by 25%.

**D**

## IFE X4 Sliding Step

**Minimal installation space – maximum function.** The step is designed to reduce weight, number of components and installation height. The simplified guiding system prevents jamming or sluggish movement.

IFE AN/AI  
DOOR LEAVES  
IN DETAIL



# IFE AN/AI DOOR LEAVES IN DETAIL

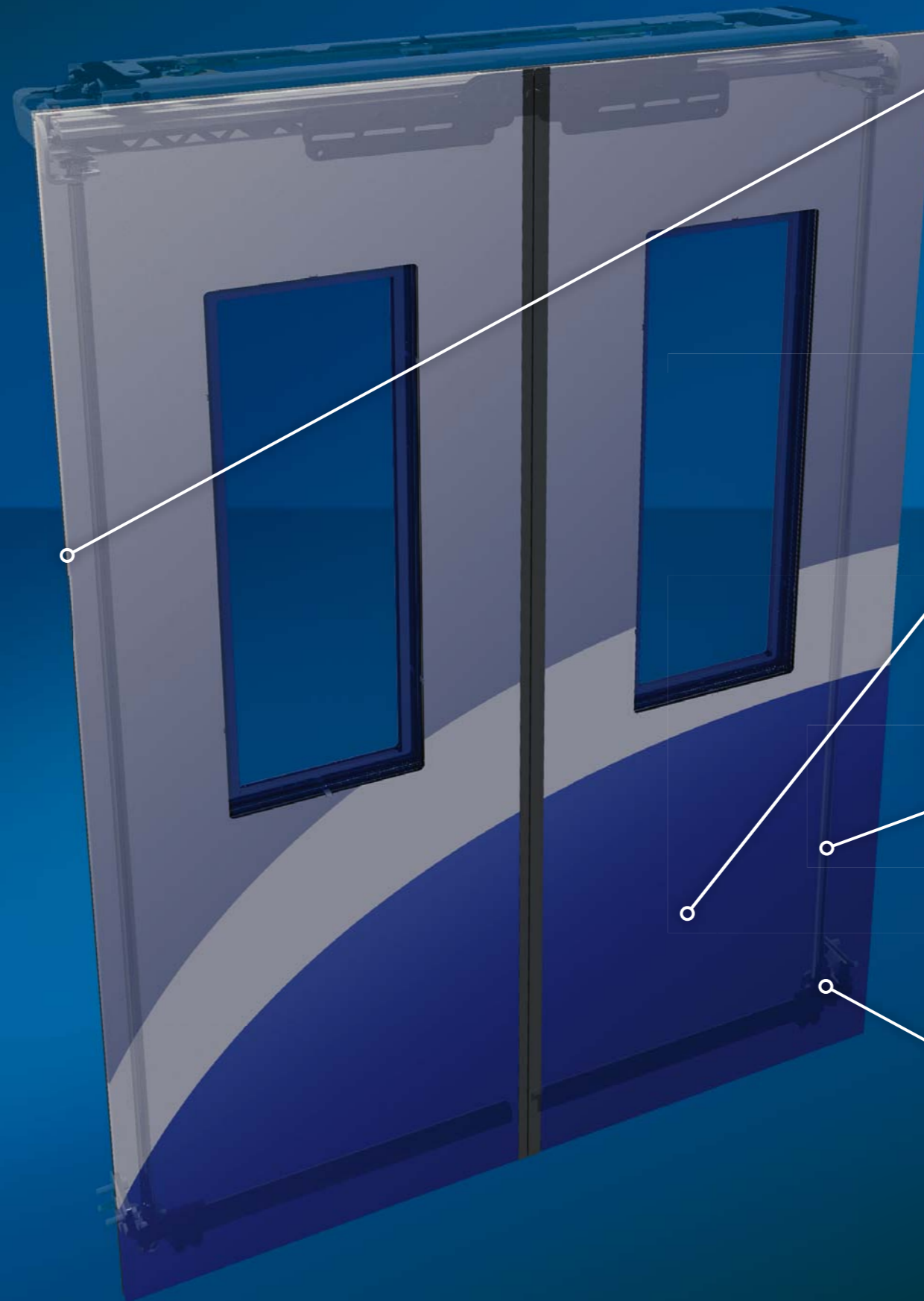
**IMPROVED PASSENGER COMFORT** combined with a considerably reduced overall energy consumption: these are decisive advantages of modern rail vehicles. A successful optimization can only be achieved if the door leaves also meet these changed noise protection and heat insulation requirements.

While standard AN door leaves perform an up to 4 times higher acoustic insulation, they are even lighter than comparable products on the market.

AI noise- and temperature-proof door leaves furthermore reduce heat transmission by up to 50% and are thus preventing condensation.

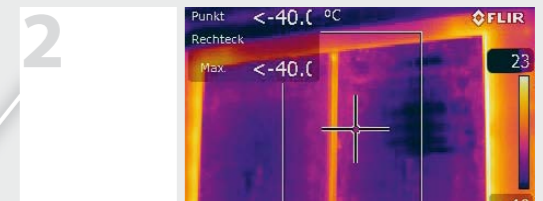
AN/AI door leaves are designed to integrate four over dead center lockings in the corners of the access system.

The adjustment-free integration of a safety device against lift-off excludes safety risks caused by faulty adjustments. The particularly torsion-resistant design allows to refrain from additional central lockings.



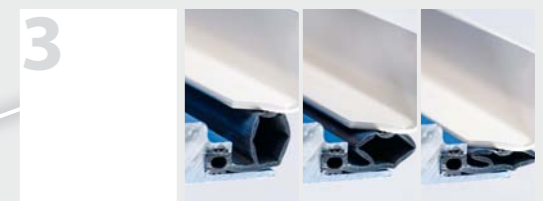
## 1 INCREASED COMFORT THANKS TO IMPROVED NOISE PROTECTION

With the introduction of new insulation materials and optimized profiles the sound insulation value is improved by a factor of 3 to 4 compared to similar products on the market, while at the same time door leaves are even lighter. This is an important contribution to the comfort in modern railway rolling stock.



## 2 IMPROVED THERMAL INSULATION FOR MORE CUSTOMER COMFORT

In addition to the improved acoustic insulation, the heat transfer coefficient is reduced by up to 50%. No condensation will thus form at the door leaves.



## 3 SEALING CONCEPT WITH TOLERANCE COMPENSATION

The substantially improved tolerance against thermal and mechanical distortions of the vehicle noticeably reduces the interior noise and improves the passenger comfort. Furthermore this allows an optimized compensation of assembly tolerances.



## 4 OPTIMUM SAFETY THANKS TO ADJUSTMENT-FREE DESIGN

The target of a maintenance- and adjustment-free design is also applied to the door leaves. The lower guiding system with an integrated safety device against lift-off fulfills all aspects of a safe and adjustment-free design.