

FOR COMMERCIAL VEHICLES

## CONCEPTS

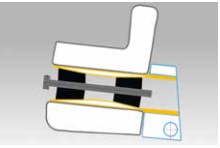
Door frame manufactured using hydroforming process



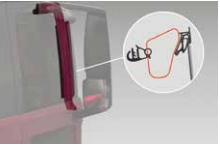
Thin-walled (0.6 mm) outer panel due to the use of wall thickness reduced panelling



Hinge concept with tolerance compensating, infinitely variable clamping sleeve



Flush design due to use of frame-under-glass concept



## WILEITNU PROJECT PARTNERS



The WiLeitNu research project has the backing of the Federal Ministry for Economic Affairs and Energy (BMWi) in line with the funding announcement „Lightweight Concepts for Road and Rail Vehicles“ under the project number 19116012A and of the project sponsor TÜV Rheinland.

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WILEITNU



OUTSTANDING INNOVATION THROUGH  
LIGHTWEIGHT DESIGN MAKING  
EXTENSIVE USE OF SECTIONS,  
COMBINED WITH MODERN STYLING



# WILEITNU

## ECONOMICAL LIGHTWEIGHT DOOR FOR COMMERCIAL VEHICLES



### LIGHTWEIGHT DESIGN

**Lightweight concept, material, production and form**  
making extensive use of closed sections in high-strength body manufacturing steel and suitable joining technologies



### SAFETY

**Safety optimisation**  
a narrow A-pillar and a London view concept for the passenger side reduce the risks associated with restricted visibility

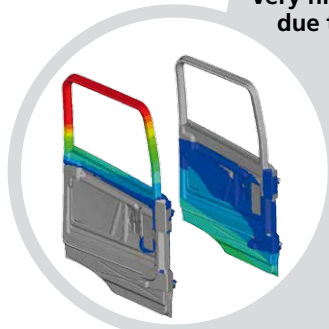


### AERODYNAMICS

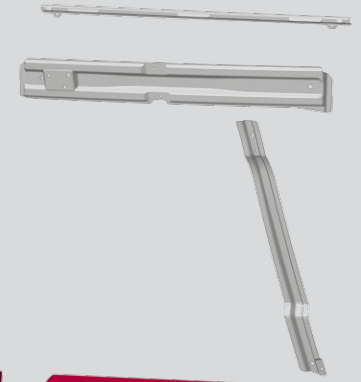
**Optimised styling concept**  
modern styling aerodynamically optimised



Very high degree of rigidity due to hydroforming frame



A-pillar with optimised field of vision



Passive pedestrian protection (vision door concept)

Aerodynamic advantages due to flush/frame-under-glass concept

