

Passenger Doors System Engineering

A focused design effort to make train doors safer and user friendly

BACKGROUND AND CHALLENGE

The client required a new product for sliding plug door with wide opening and improved features. These doors needed to cater to wider platforms and newer TSI requirement for added passenger safety. They also needed to address door leakage issues and meet weight targets.

SCOPE OF WORK

- Design the concept
- Design the preliminary product and the details
- Realize the design
- Engage with the suppliers
- Ensure technical compliance and response
- Make engineering changes

SOLUTION

- Configured the new product
- Made passenger access footsteps cater to wider platform gap
- Introduced sensitive edge technology
- Developed new variants of door sealing
- Optimized door window glazing

IMPACT

- Reduced weight
- Watertight design
- Added safety

