



ICD is a ceiling modular solution that integrates ceiling and air ducting in one single component. It incorporates all ceiling elements: HVAC ducts, lighting, communication systems, ventilation grids, air regulation system, electrical wiring and communications with easy accessibility for maintenance.

Main advantages:

- Integrated module with reduced number of parts.
- Plug and Play. Easy and quick assembly.
- Optimized Air distribution with CFD study.
- Standardized modules. Configurable to different layouts.
- Easy airflow regulation system with automatic or manual activation.
- Noise level optimization.
- No visible screws and fixations.
- Improved maintenance traps.
- Good performance for passenger comfort.

Our products comply with the railway standards, such as EN 15085, DIN 6701-2, EN 45545, EN 61373, or others applicable by country.

PRODUCTS

INTERIOR SOLUTIONS



Interiors products:

- Complete ceiling fittings and installations.
- Side-wall / side board installations.
- Air ducting + ventilation grills / air inlets / inlet filters etc...
- End-wall; space wall; wall cab.
- Lighting in general.
- Clapboard ergonomics & grids.
- Partitions and partition door.
- Front masks and other masks.

Interiors elements manufacturing, assembly and test:

- Light components (Fiberglass, HPL, Aluminium..).
- FRP workshop.
- Sandwich workshop.
- Washing and Paint workshop.
- Cabling workshop.
- Panel machining section.
- Metal workshop.
- Pre-assembly section.
- Final Assembly and test workshop.

Product Design Methodology:

- Technical specifications and regulations analysis.
- Interferences, ergonomics and style design.
- Material selection and dimensioning.
- 3D and 2D Engineering.
- FEA and preliminary tests: CAD / FEM.
- Production of patterns and moulds.
- Manufacturing.
- Internal validation tests.
- FAI protocols and control.
- Product control with serial tests.
- Installation at customer side.
- Training.
- Documentation.
- Instructions. RAMS.
- Aftersales assistance.

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