



edilon)(sedra

SLAB TRACK SYSTEMS FOR PUBLIC TRANSPORT

Prefab Embedded Rail System (ERS-M)
State-of-the-Art Track Fastening Solution for Tramways
with Minimal Installation Time





Early project involvement is essential for a holistic approach to (BLT) trackwork development

Engaging all stakeholders

- Network operator
- Contractors
- Design & engineering houses
- System developers & suppliers
- Economic & legal experts
- Etc.

Many aspects to be included in trade off matrix

- RAMS – Reliability, Availability, Maintainability, Safety
- Vibration and noise control
- Stray current control
- Aesthetics
- Integration into the environment (tunnel, elevated, urban, dedicated or mixed traffic etc.)
- Buildability, cost of construction (time, staff, method, equipment, quality control, logistics, required space,...)
- Sustainability – longevity/durability, carbon footprint, recycled/recyclable
- LCC/ TCO – not just initial investment costs



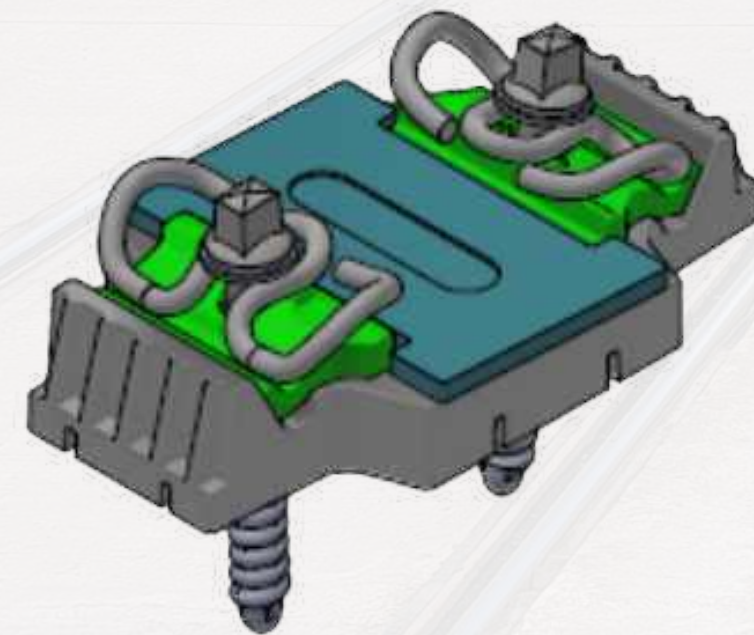
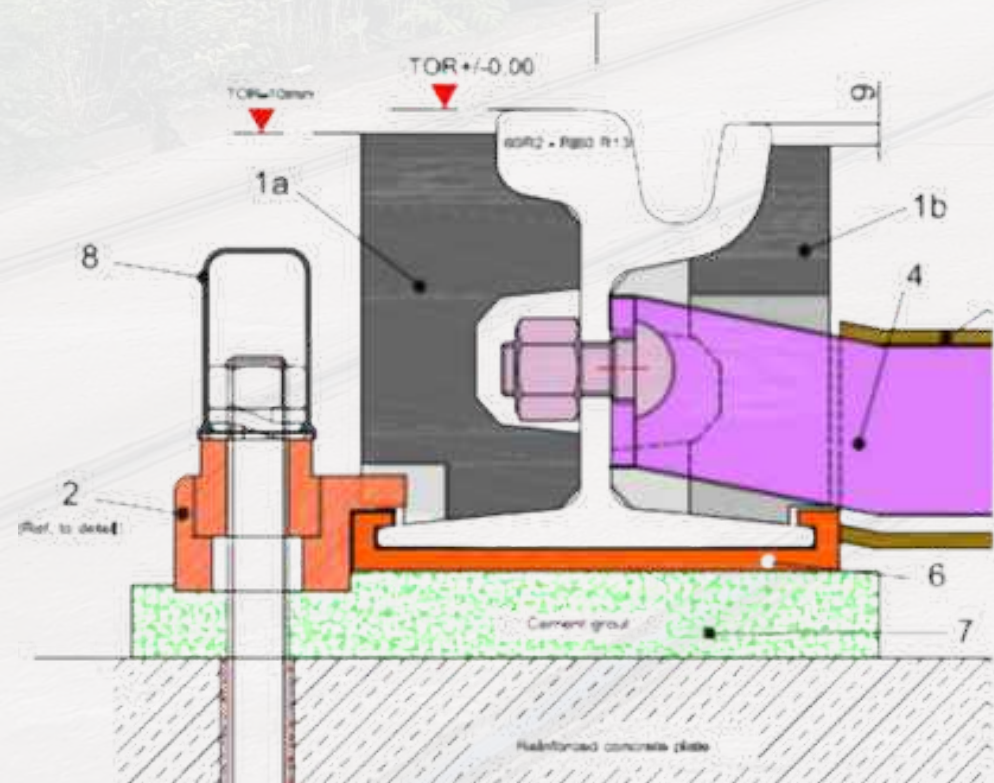
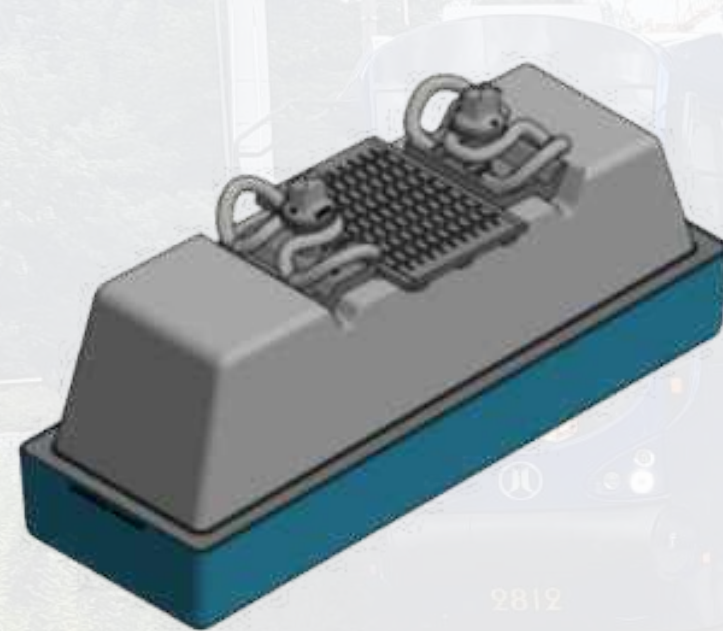
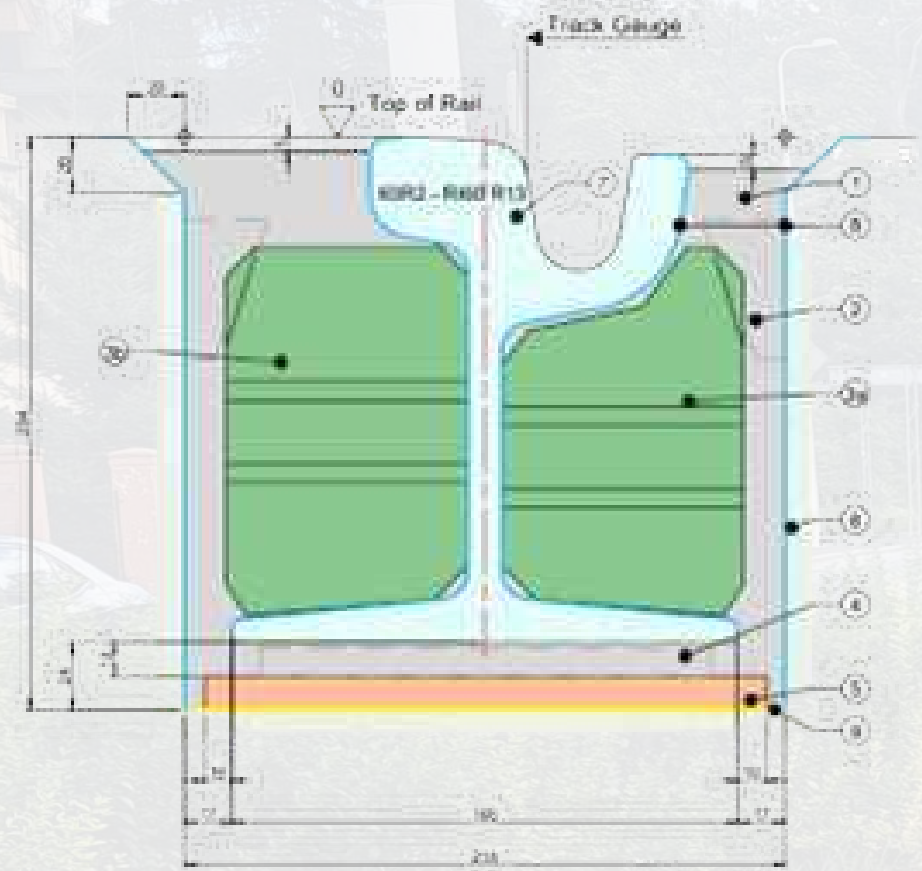
edilon)(sedra carries 5 decades of collected slab track expertise

Core systems

- **Corkelast Embedded Rail System - ERS**
- **Corkelast Embedded Block System- EBS**
- **Sound Damping System – SDS**
- **Direct Fastening System – DFS**
- **Trackelast elasticity products**
- **DEX- adhesives**

Added Value Services

- **Research**
- **Development**
- **Application engineering and design**
- **Training**
- **Installation support/project management**
- **...and more**





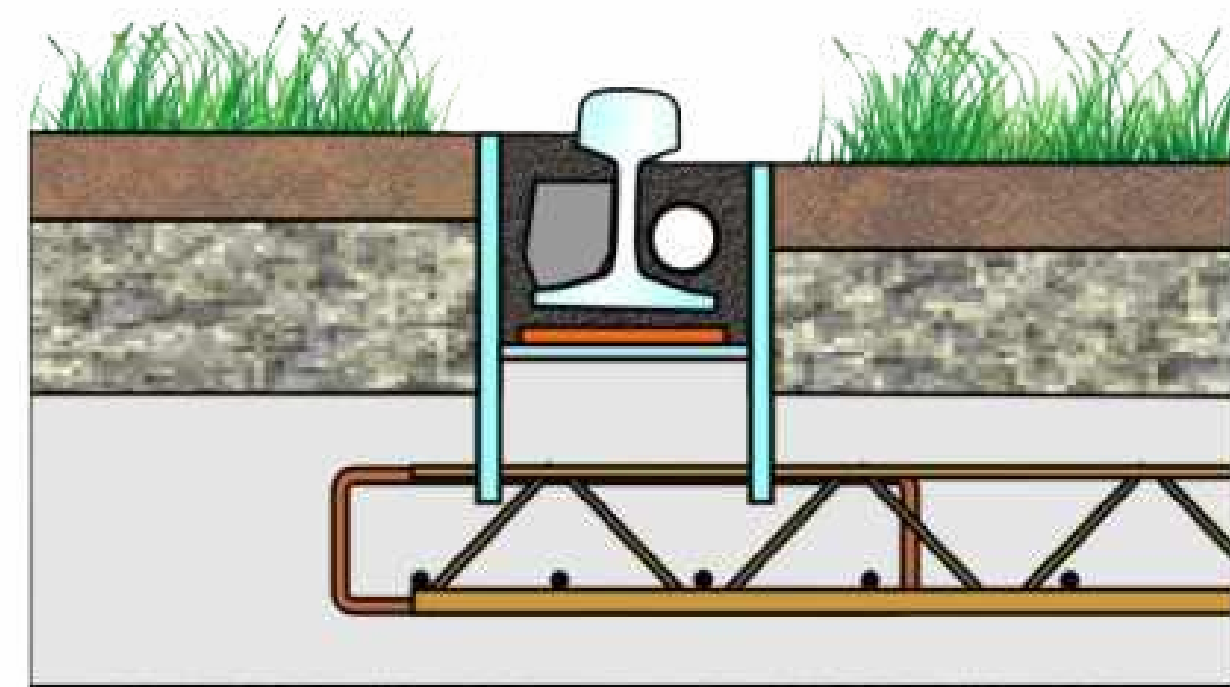
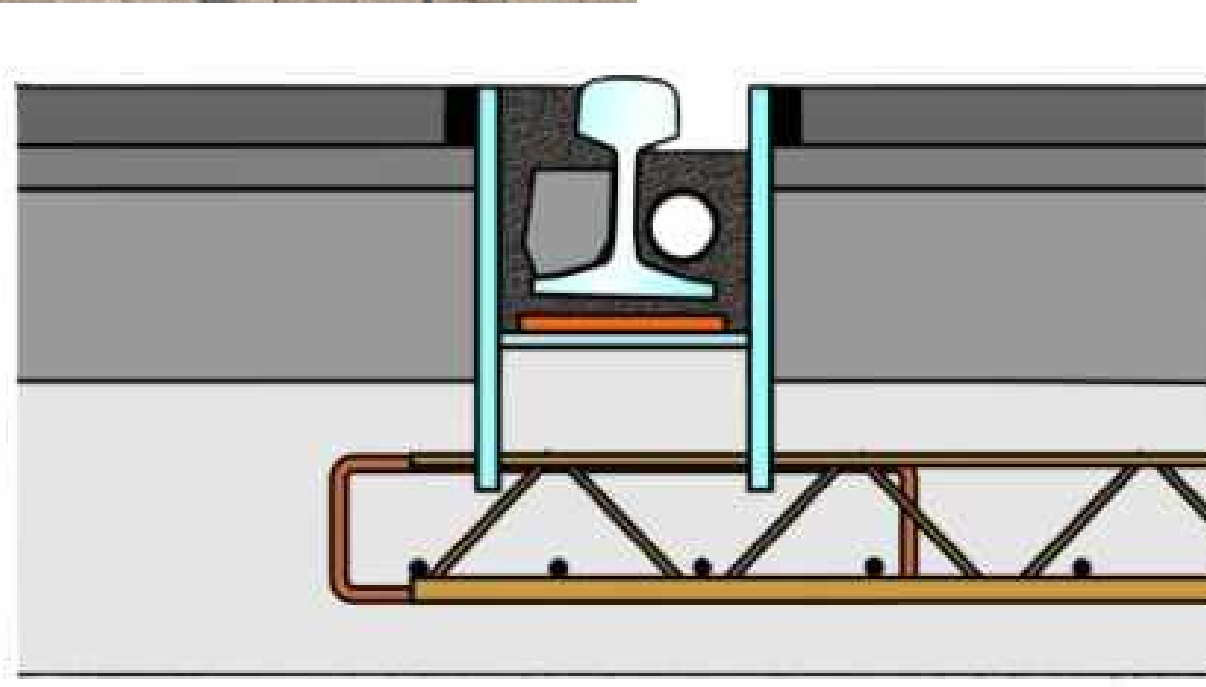
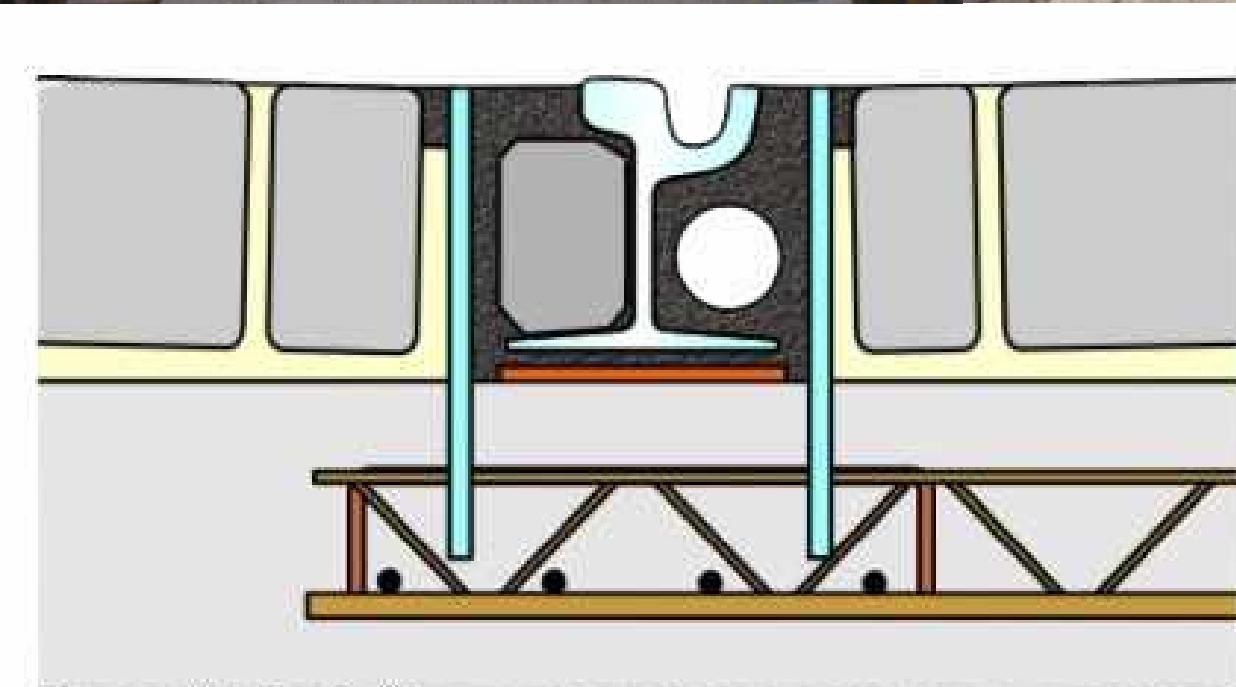
Pro's for Prefabrication of Slab Track Elements

- Accurate dimensions (controlled production/ use of mould and calibres - instead of in-situ shuttering etc.)
- High quality elements (conditioned production)
- Quick installation (lack of curing time)
- More accurate construction planning (improved on site risks control)
- High grade of aesthetics

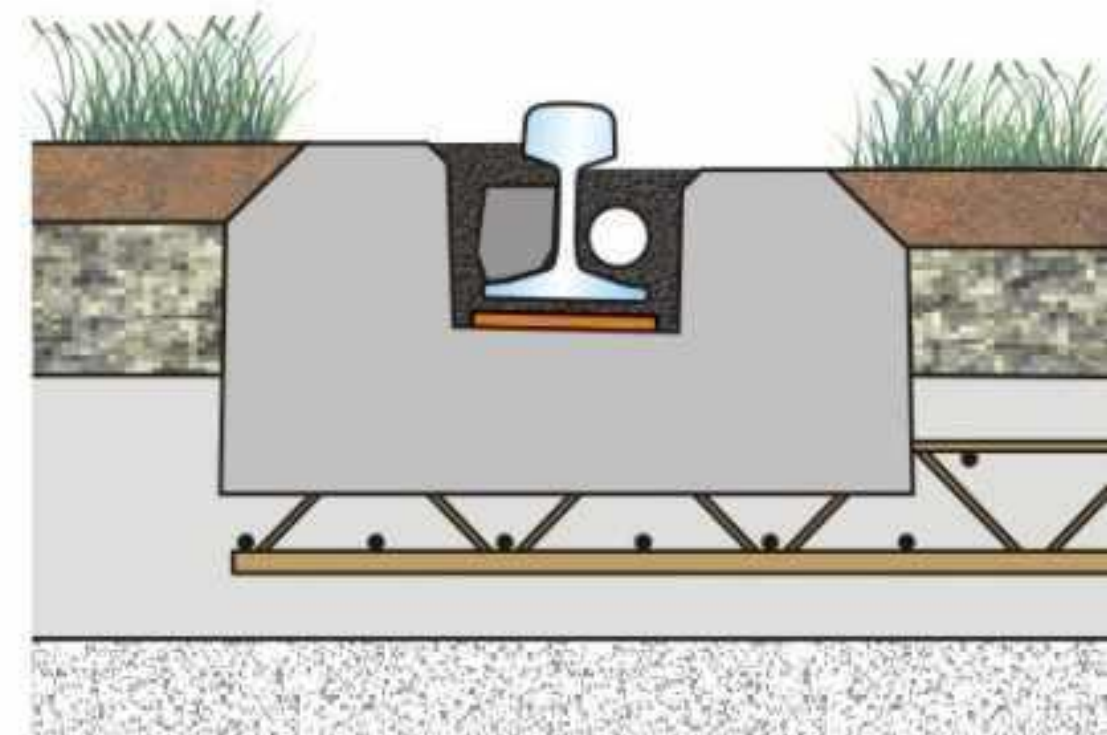
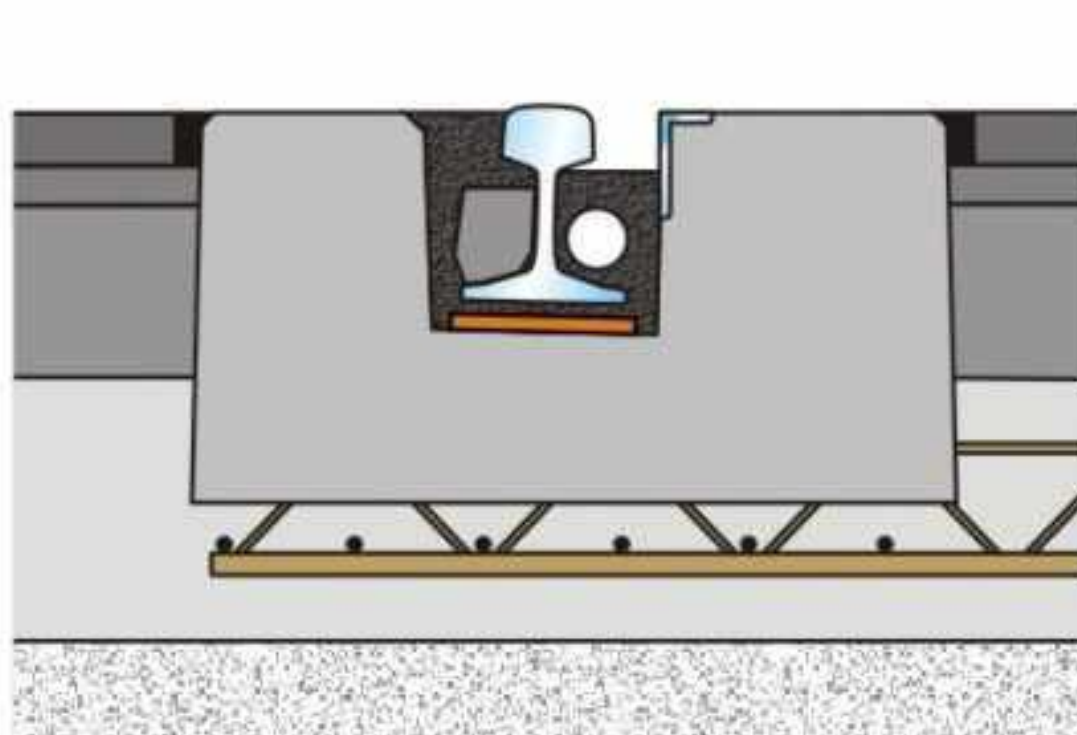
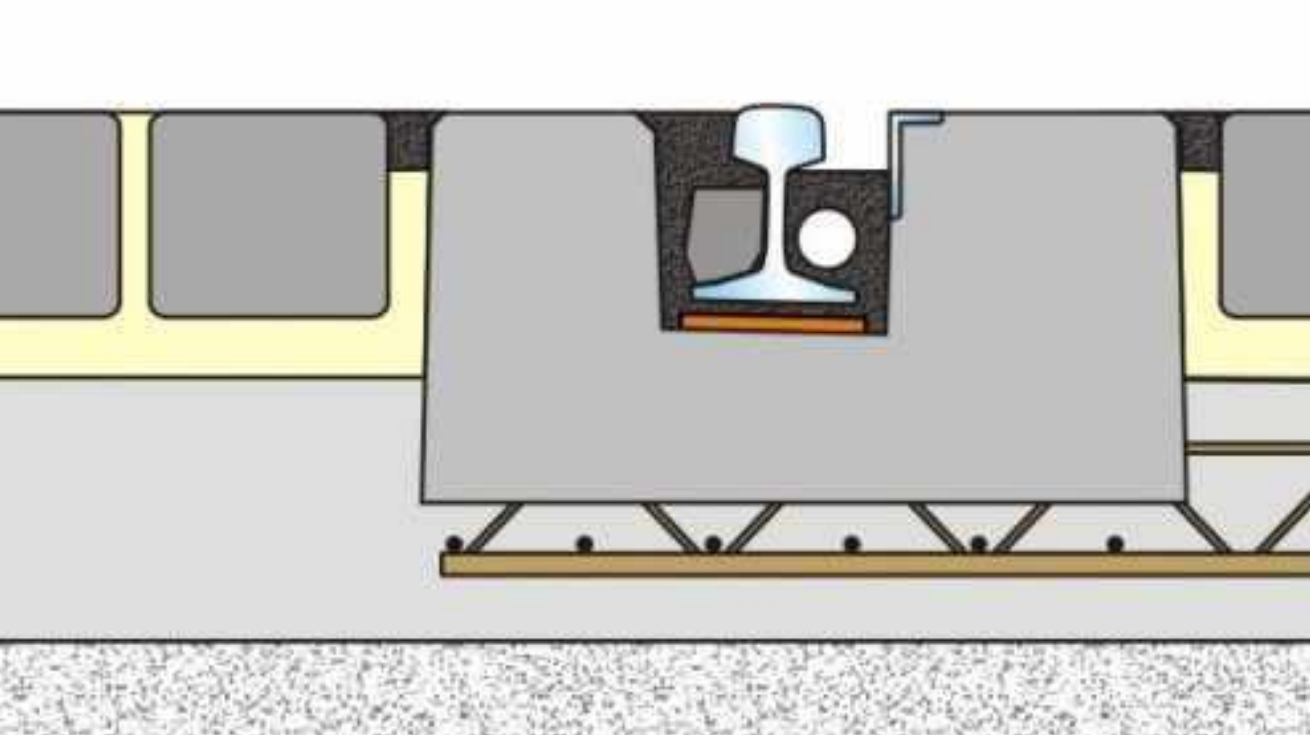
Con's for prefabrication of Slab Track Elements

- Often perceived as more expensive to build
- Adaptation required to different logistics and handling of elements
- Adjusted installation methodology required (for contractors to get used to)

Prefabricated steel channel | reinforcement



Prefabricated concrete channels





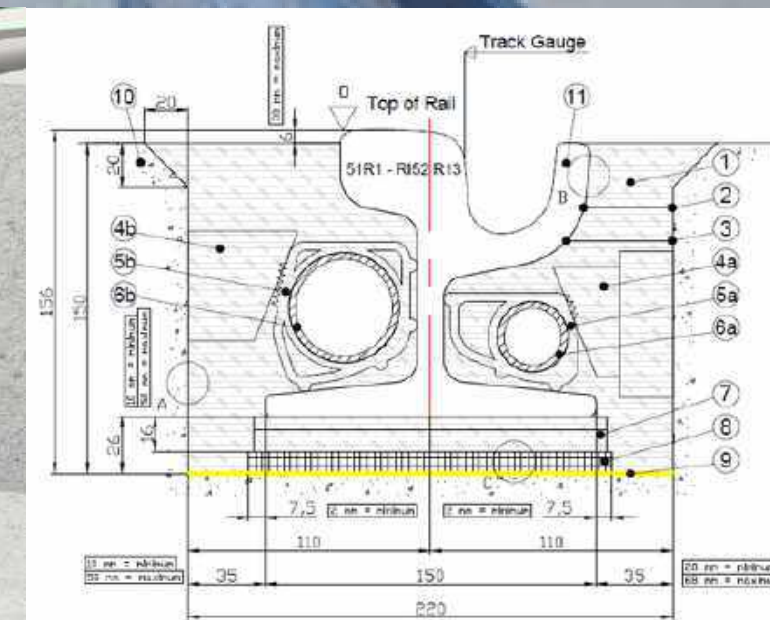
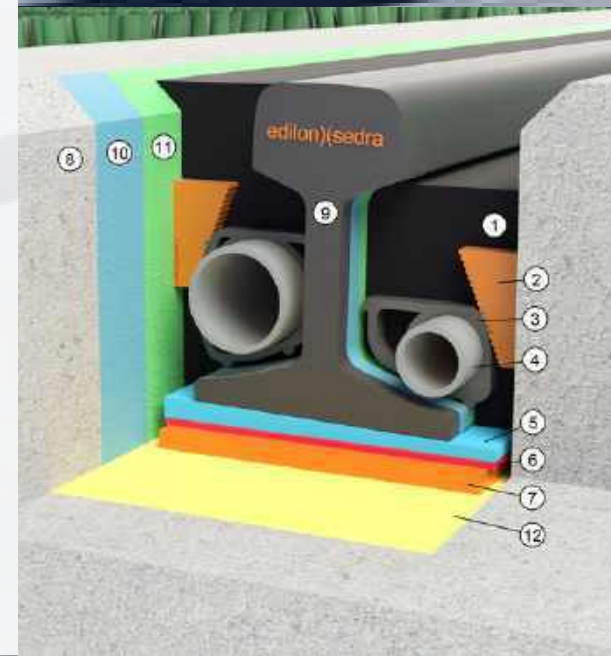
Full Concrete Slabs

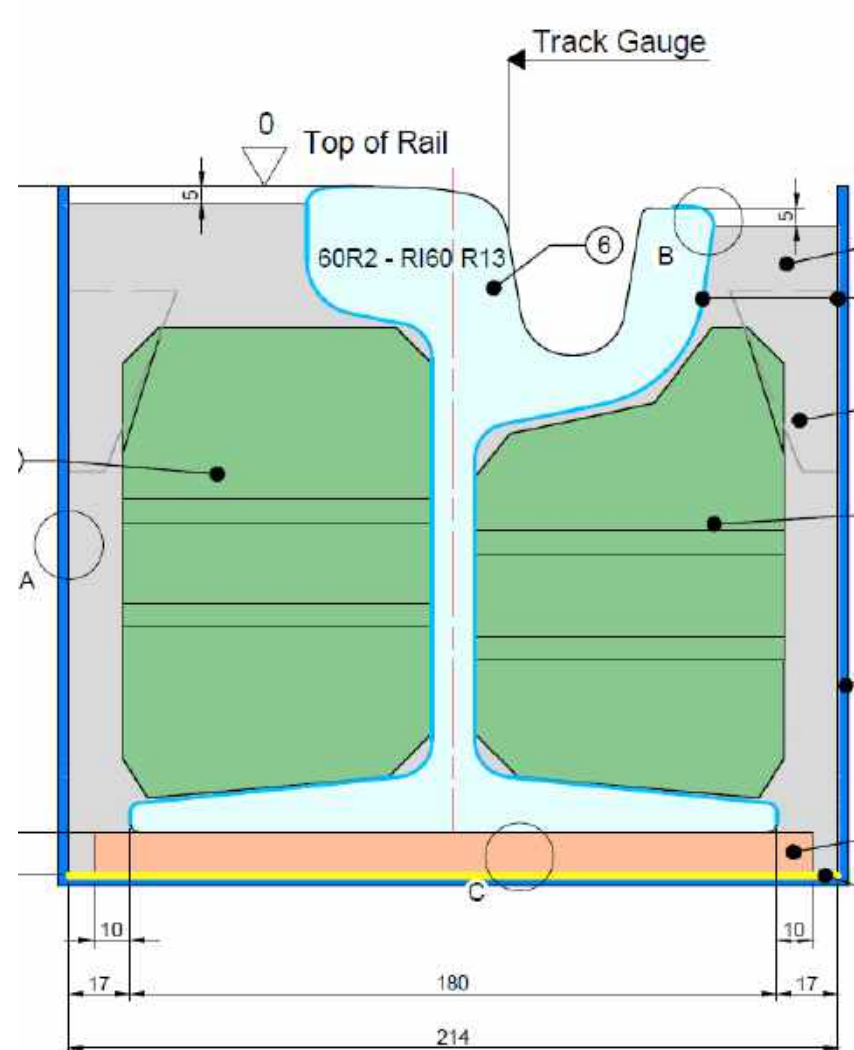


Corkelast® Embedded Rail System

Main characteristics

- Low construction height
 - Low construction weight
 - High stray current protection
 - Reduction of airborne noise
 - Tunable for vibration mitigation
 - Virtually maintenance free
 - Delayed rail corrugation
 - Suitable for mixed (heavy) traffic
 - Easy to clean
 - Flood resistant
 - Flexible aesthetic integration
 - Long lasting construction
- And for tunnels also:
- Easy emergency evacuation
 - Easy maintenance vehicles access





Corkelast® Embedded Rail System

Prefabricated Modular Unit ERS-M

- Pre-fabricated off-site
- Stable quality
- Controlled consumption
- Easy installation
- Can be utilized for re-railing and new build

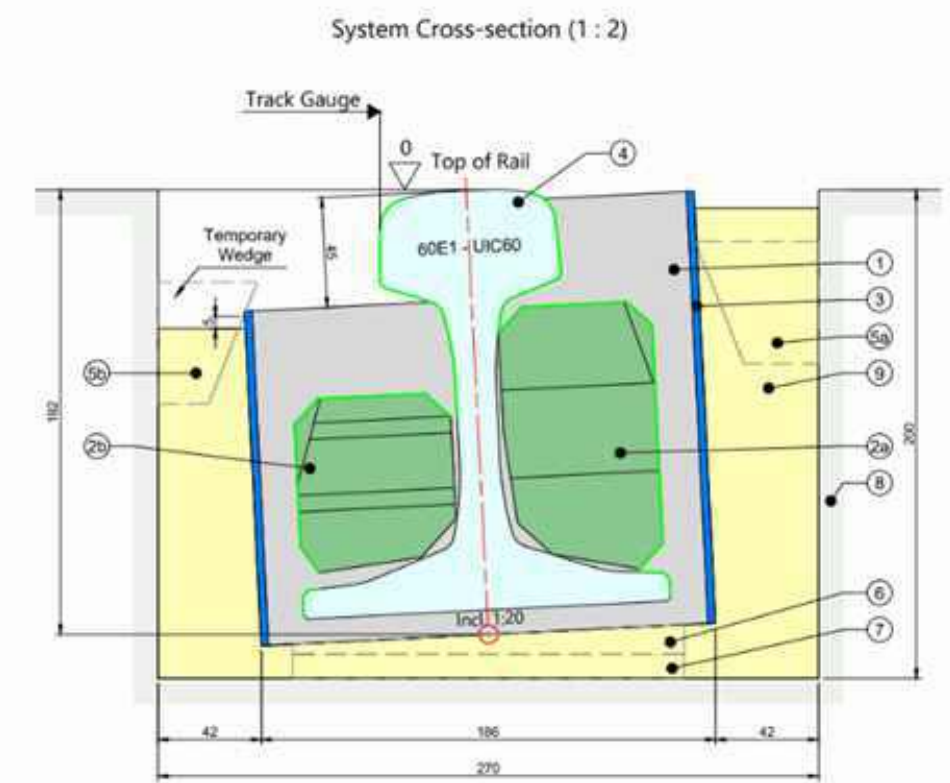
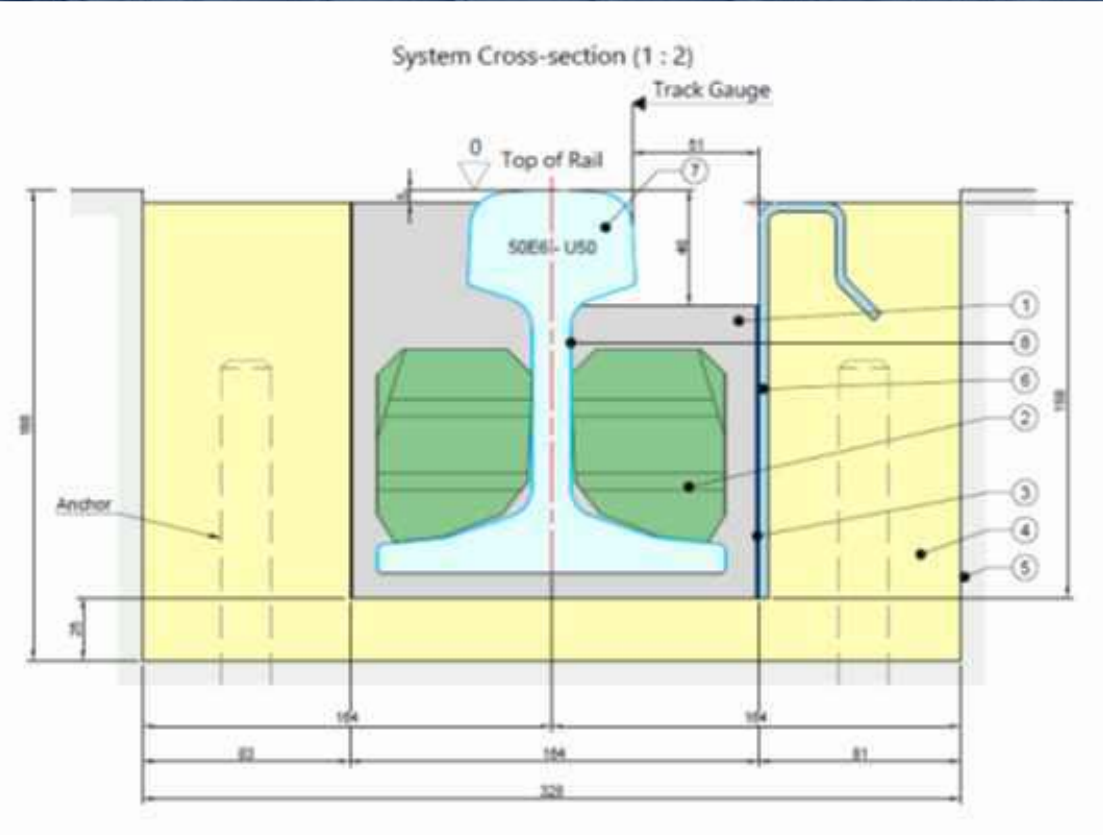
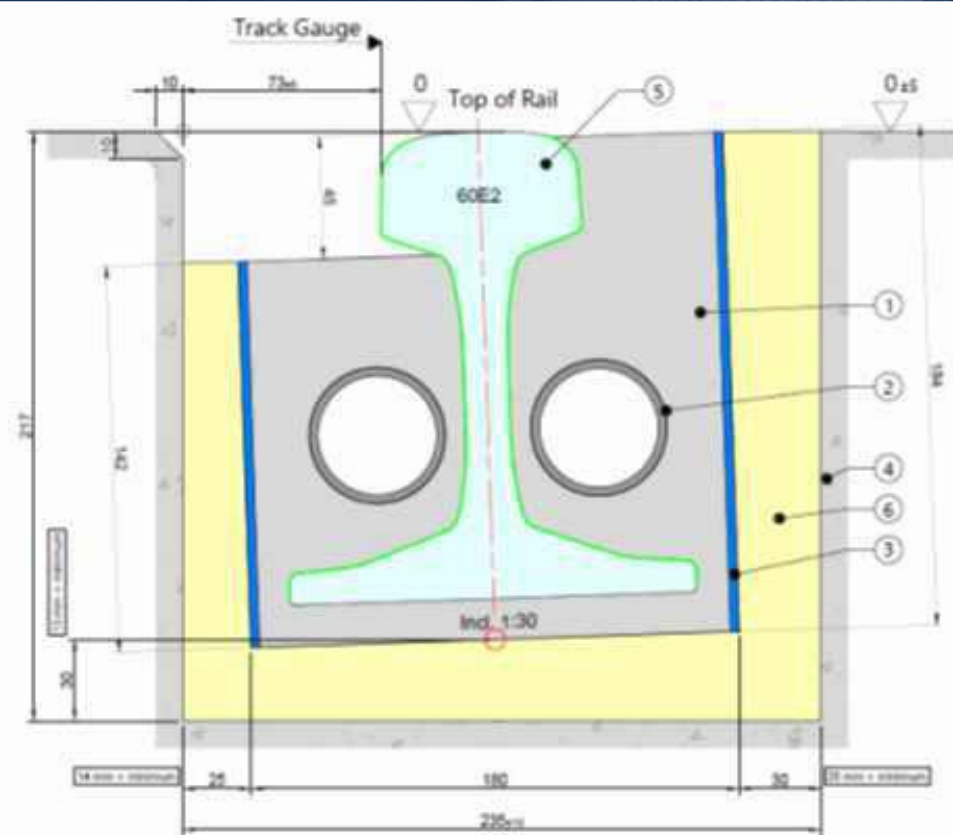




Why ERS-M

- Cons and Risks strongly reduced
- Costs controlled
- Quality secured
- Simplified (in-situ) installation
- Re-railing is same procedure as for new build in new in-situ channels
- Less equipment needed on-site
- Lesser skilled people can do it







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