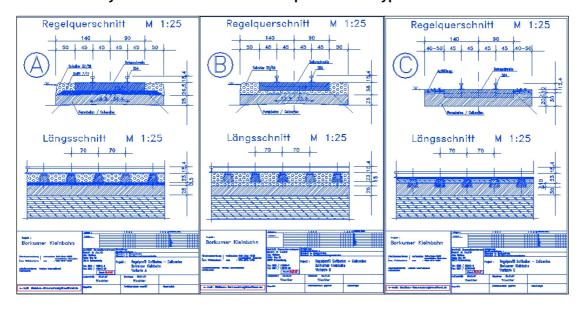


## Borkum railway track line: SOFTBETON® superstructure types



Typical cross section

Longitudinal section

#### **Conditions on site**

- · A 20-year old track line built on sand is to be replaced
- Flooding of parts of the line is possible
- Subgrade lacking stability on some stretches

# Construction of superstructure with SOFTBETON®

- Faster construction (700m in 3 days)
- Construction as slab track (200 m) and as subbase with broken stone overlay (500 m)
- Advantage: uniform instead of multi-branch force distribution

### **Structure**

- Three versions of track line construction: A, B, and C
- Versions A and B each with 25 cm SOFTBETON<sup>®</sup>, tracks are placed on top
- Version C with 30 cm SOFTBETON<sup>®</sup>, slap tracks with partially cast in
- Top layer: Broken stone, base: geotextile

### **Materials**

- 35% water
- 64 % cement (CEM I 42.5)
- < 1% polypropylene fibre and pore former
- Compressive strength: 6.0 N/mm², weight ('wet' each cubic metre): 0.75 tons