

HVSIA 2009



HVSIA meeting 2009

Leif G Wiman VTI Sweden

www.vti.se



European project SPENS

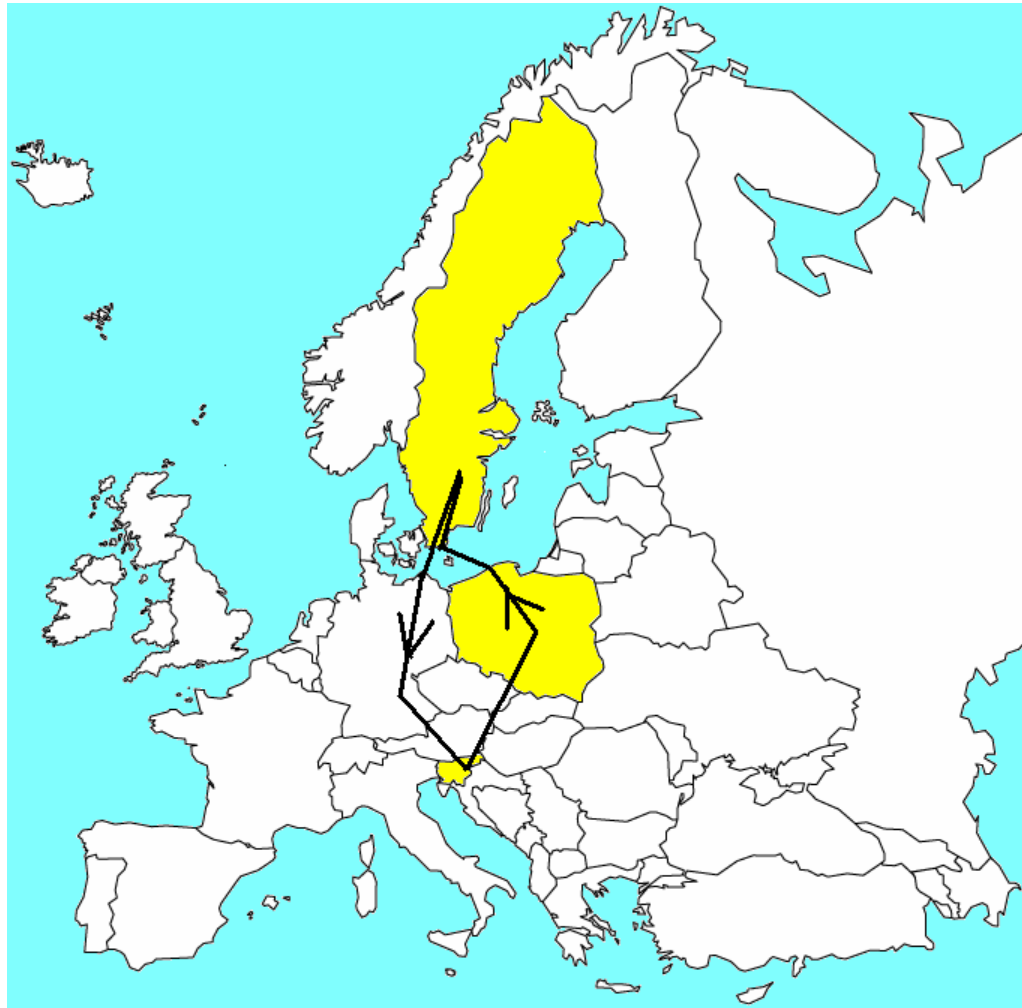
Sustainable Pavements for European New member States

- » WP 1 Management
- » WP 2 Road assessment & monitoring
- » WP 3 Improvement of pavement structure
- » **WP 4 Evaluation of materials for road upgrading**
- » WP 5 Impacts on environment
- » WP 6 Dissemination

HVS tests in Slovenia and Poland

- » 6 test structures in Slovenia
- » 4 test structures in Poland
(2 structures in each test)

HVS route 2008, (3000 km)



On the way through Sweden



Arrival to Germany



Out from the ferry



At test site in Slovenia



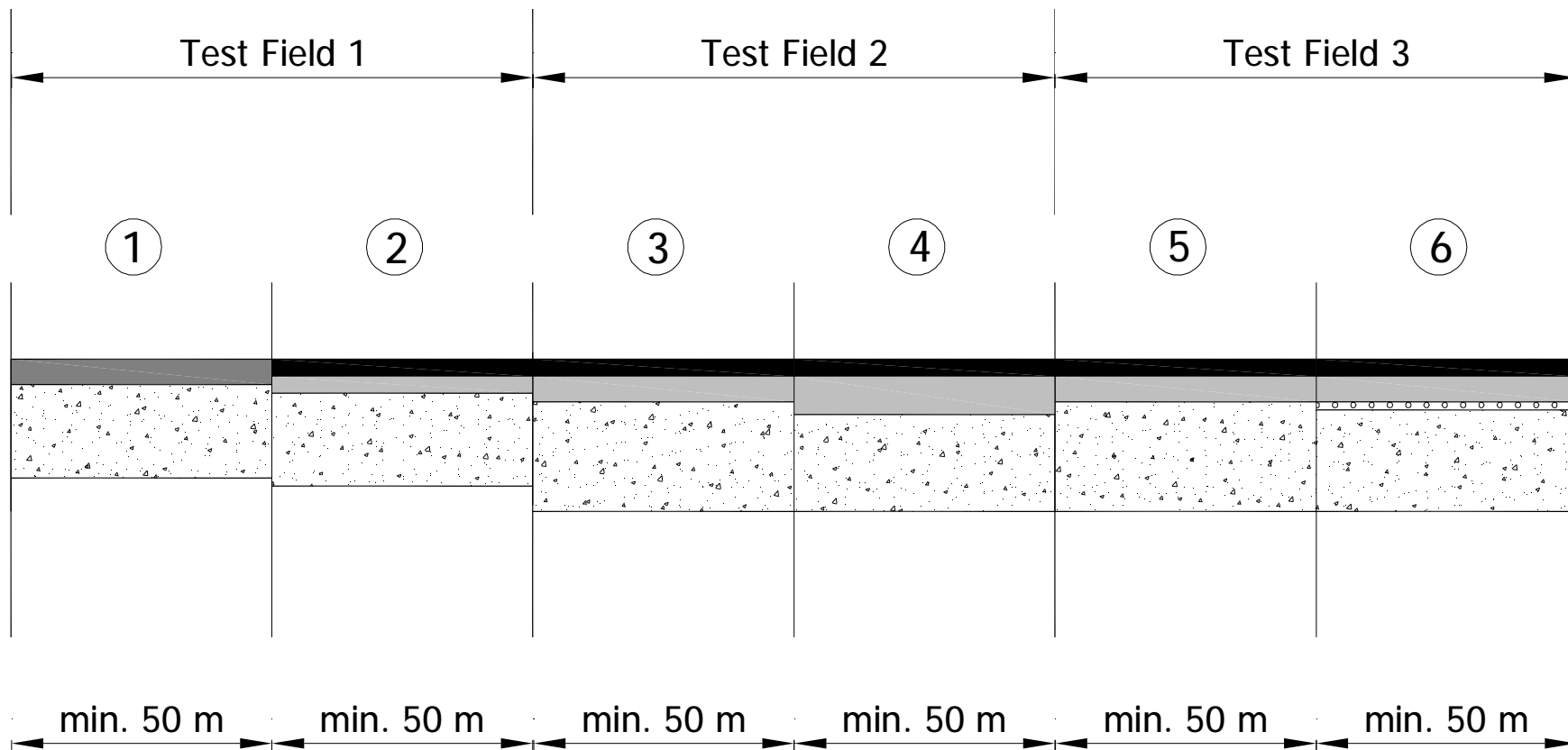
Container with fittings, tools, etc



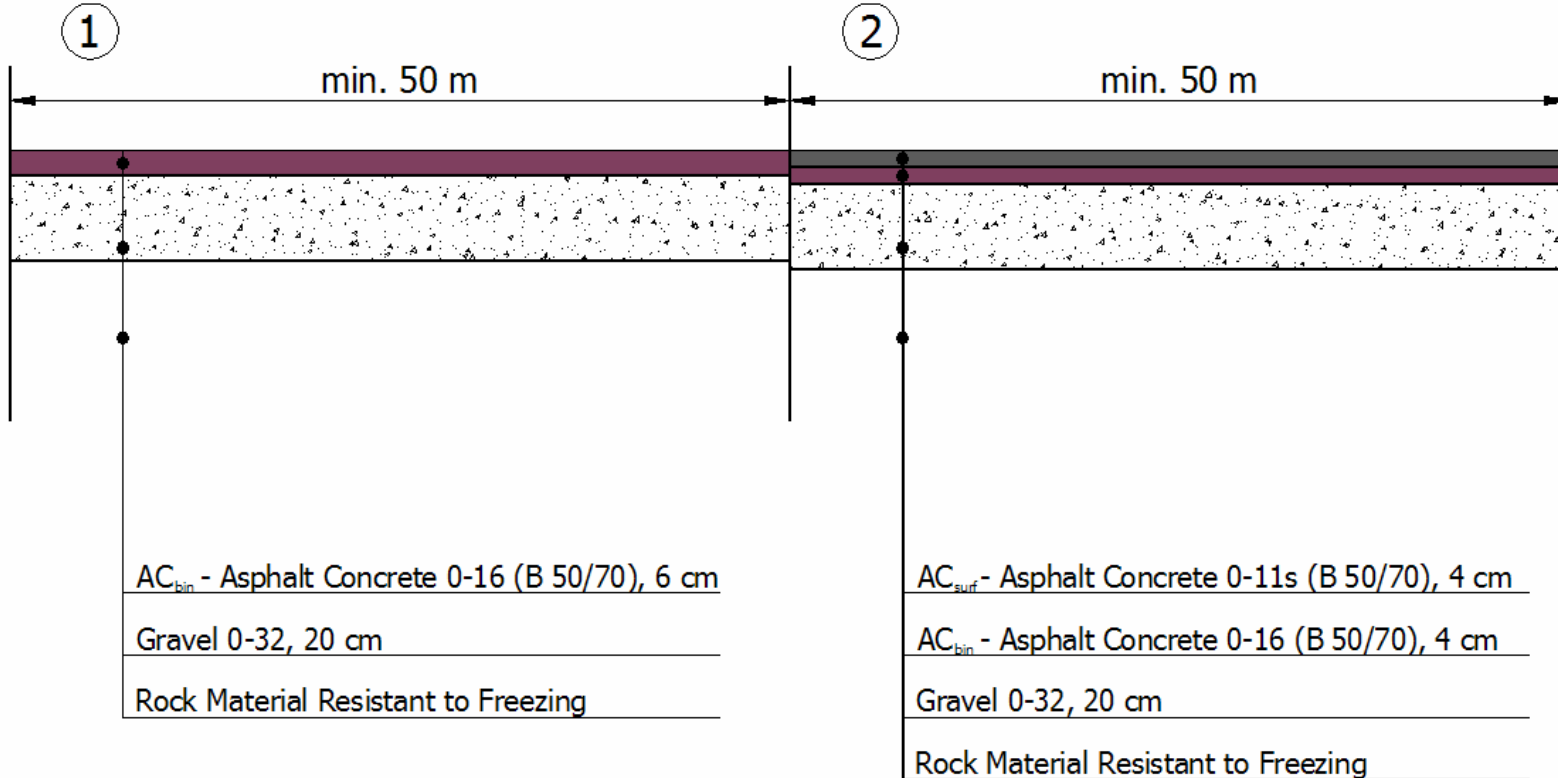
First test in Slovenia

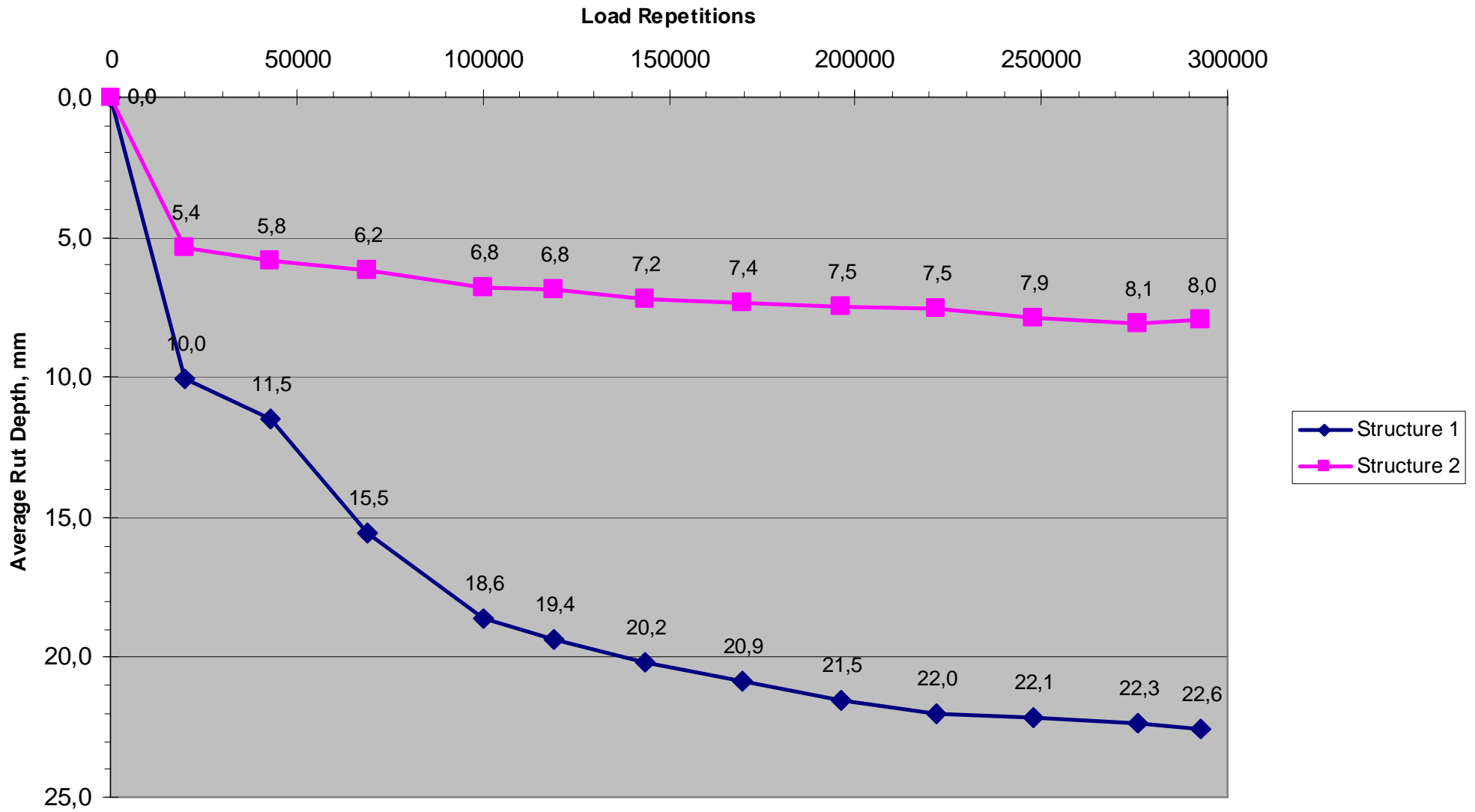


Test Field in Slovenia

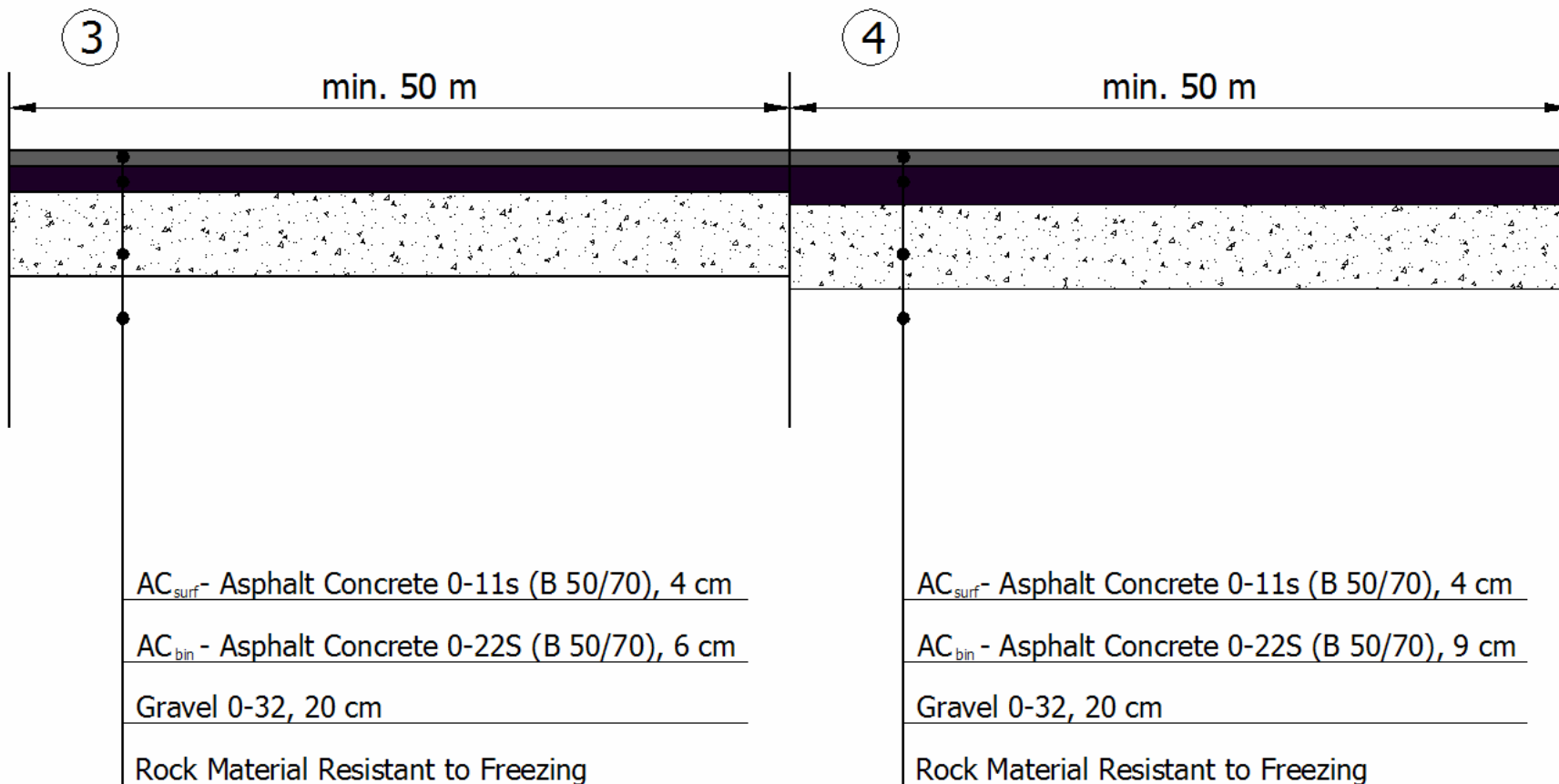


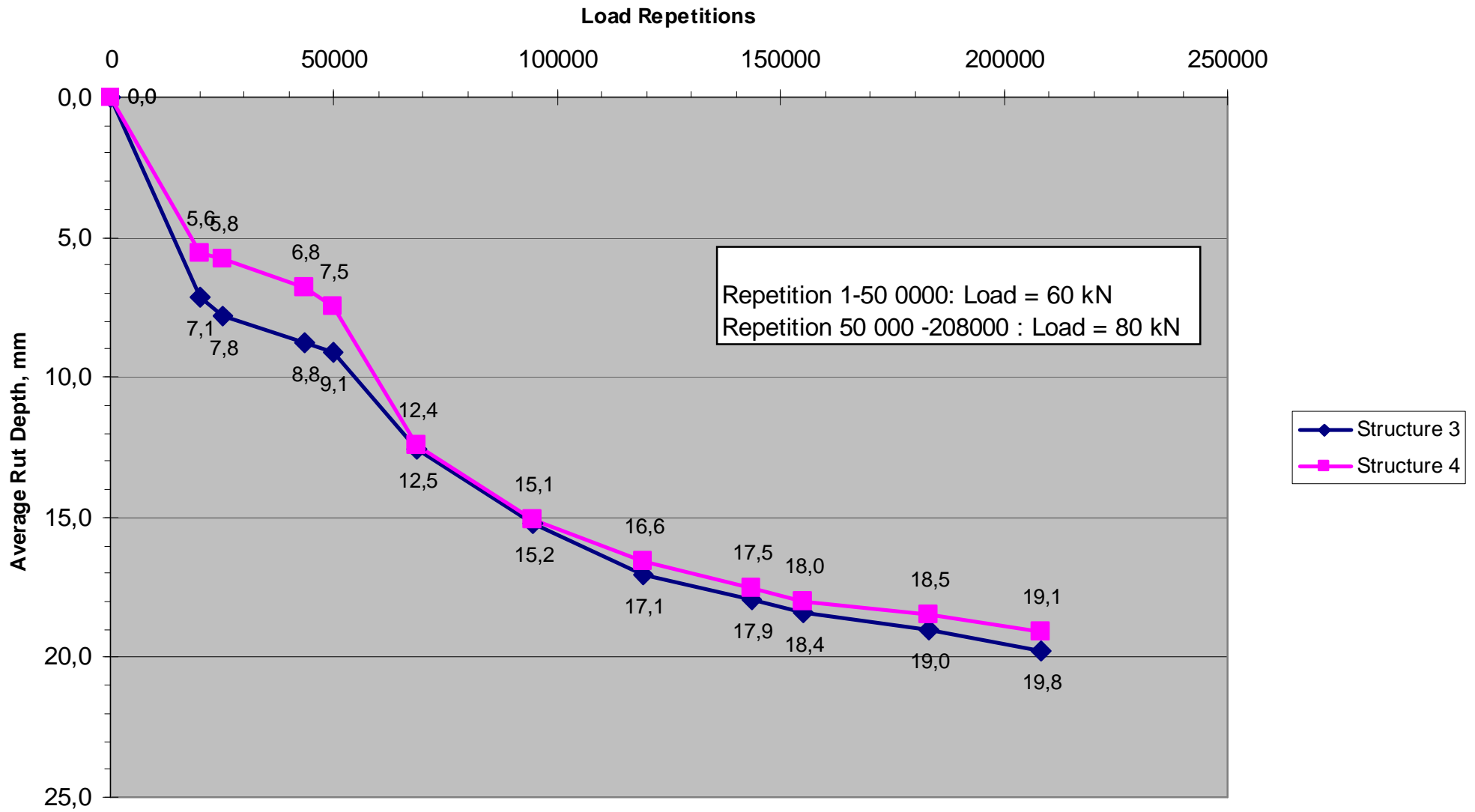
Test Field 1 in Slovenia



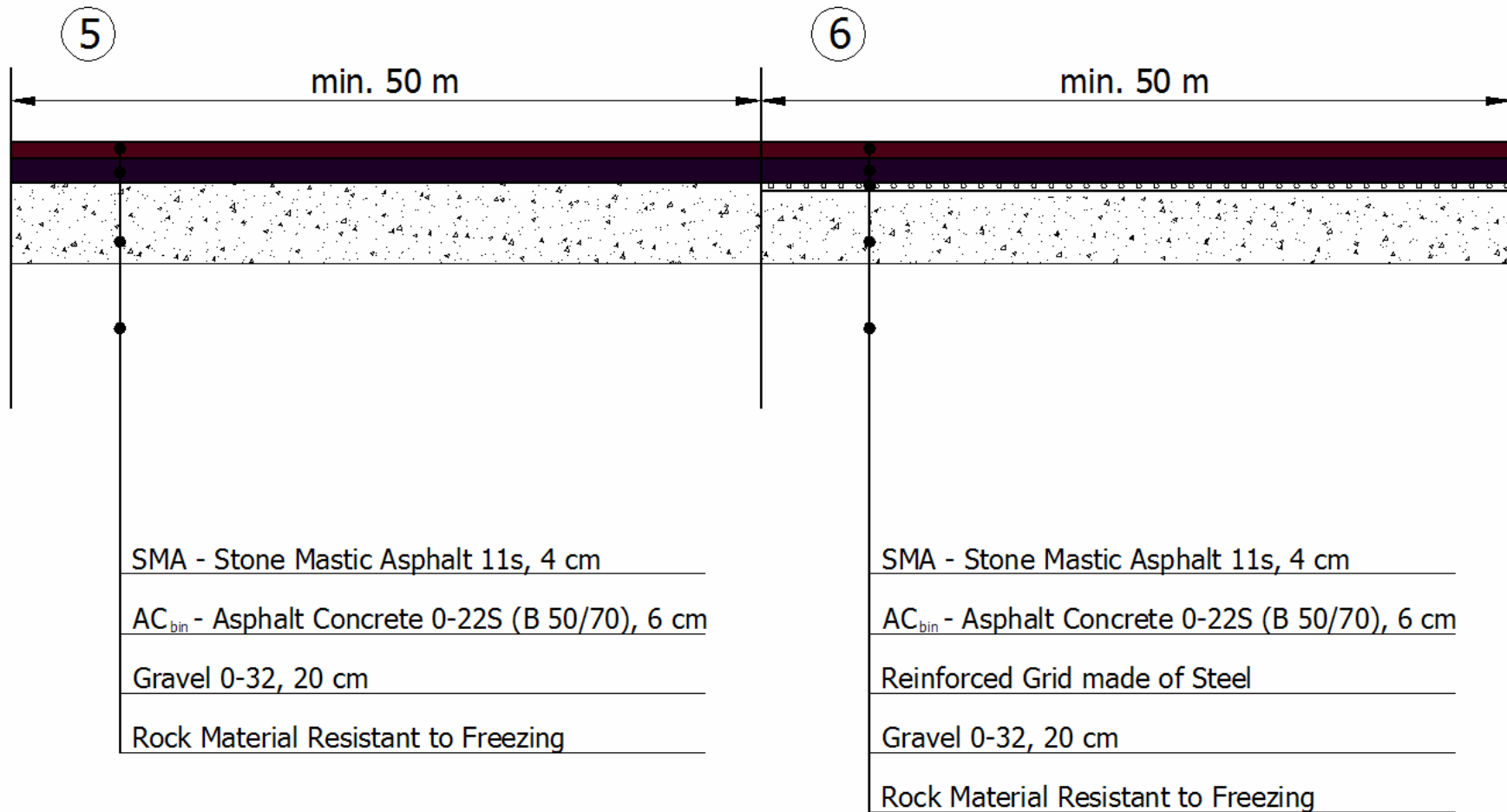


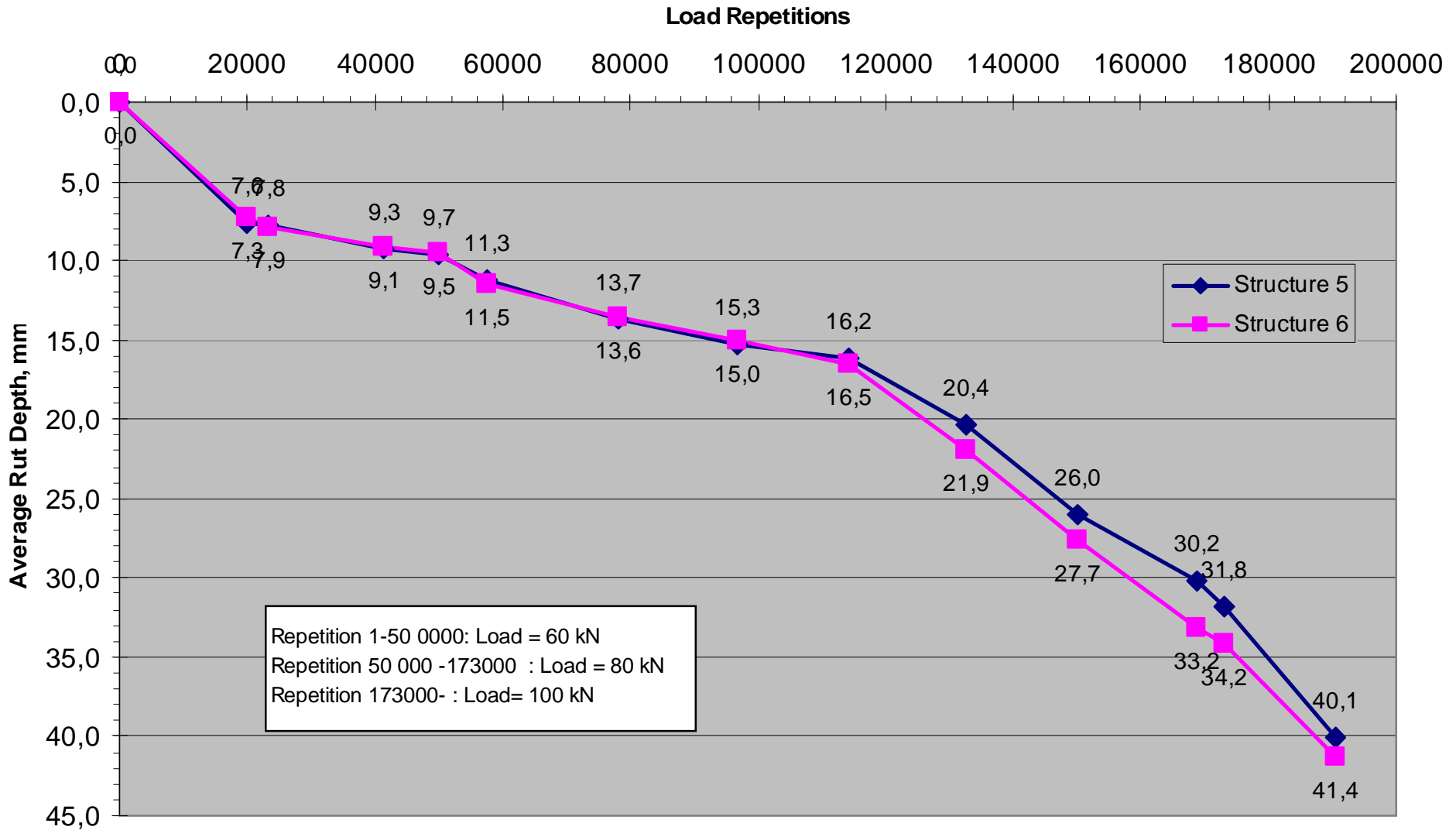
Test Field 2 in Slovenia





Test Field 3 in Slovenia

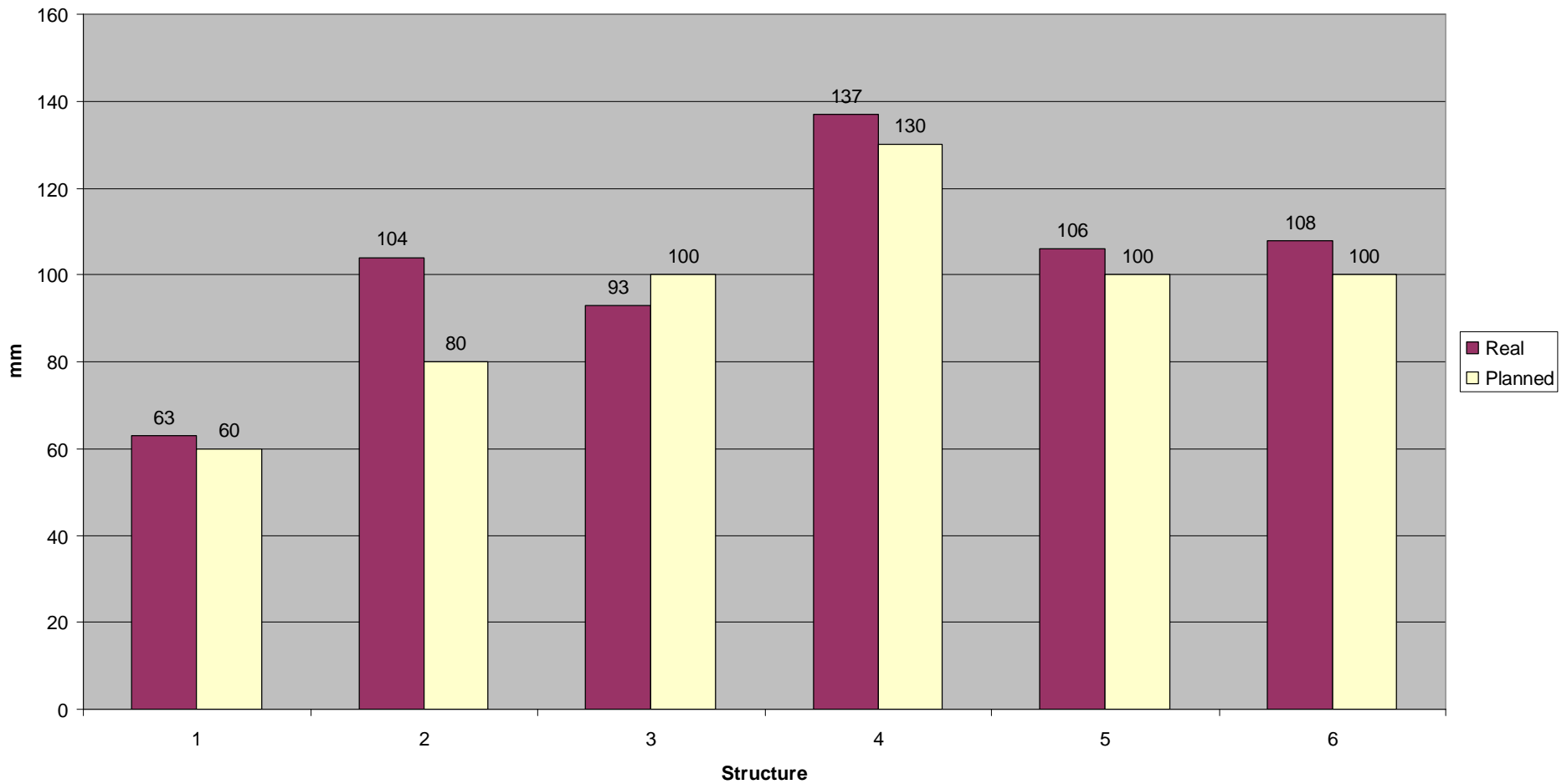




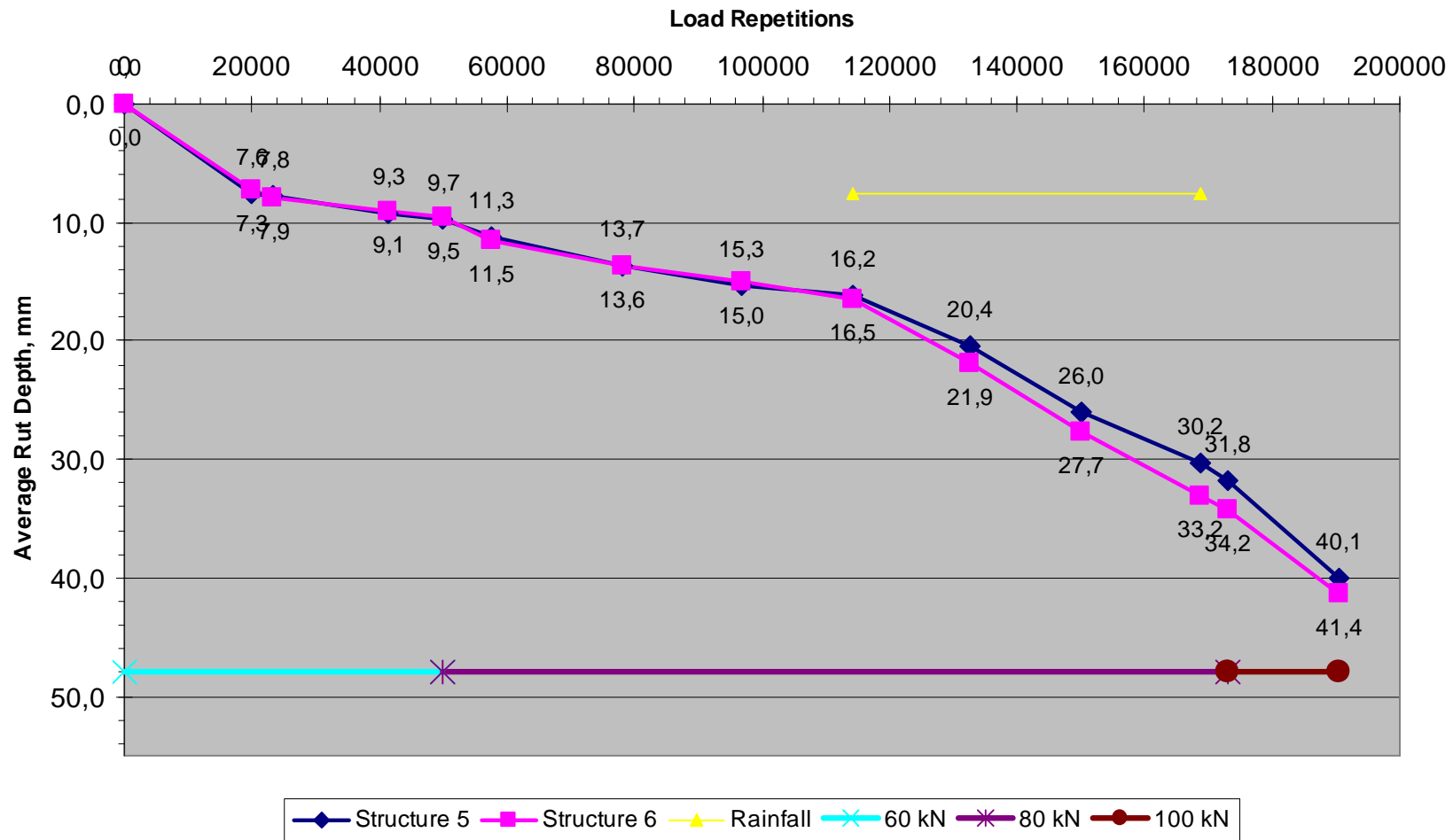
Plans and reality

Planned & Actual AC thickness

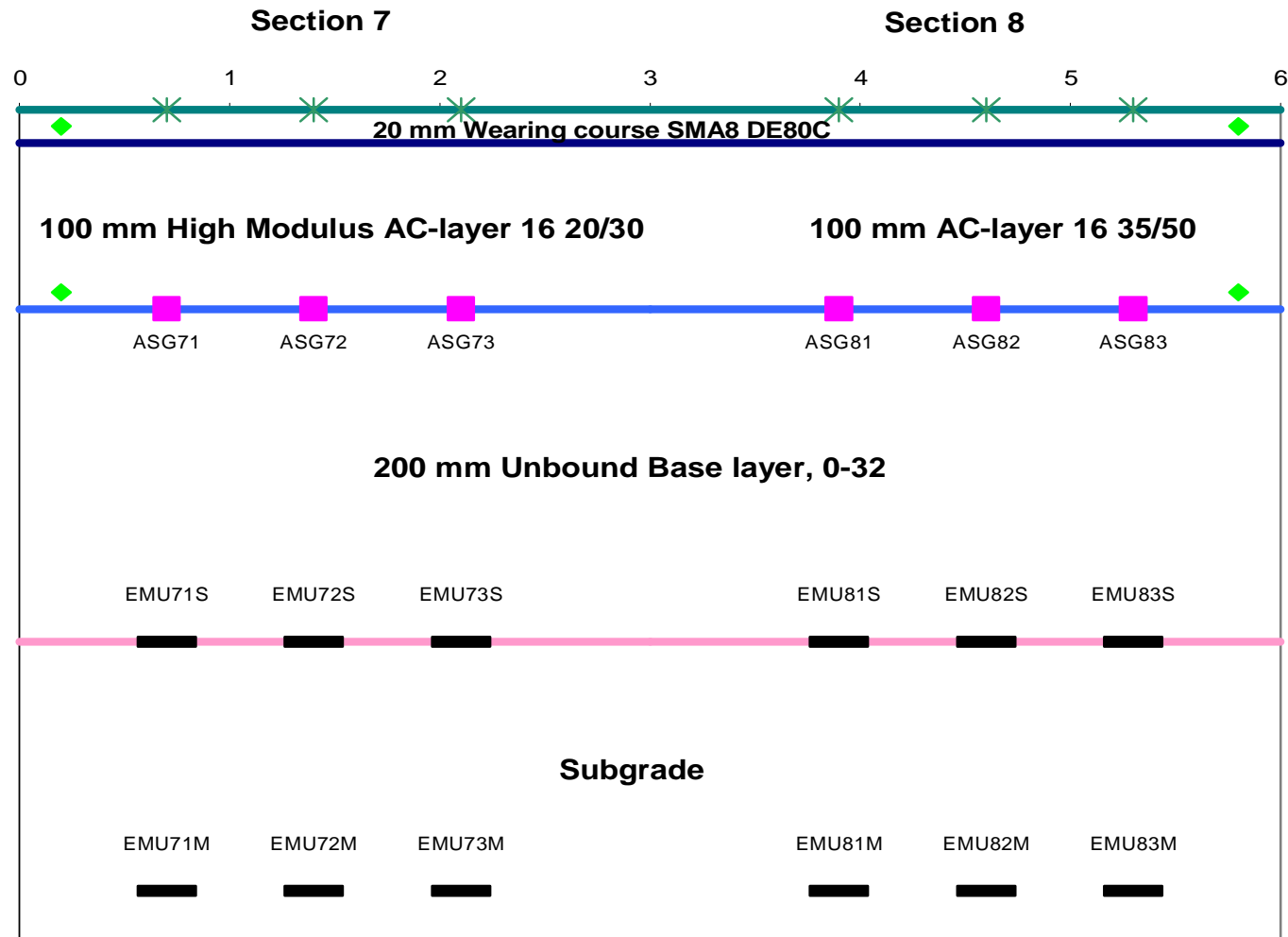
AC thickness



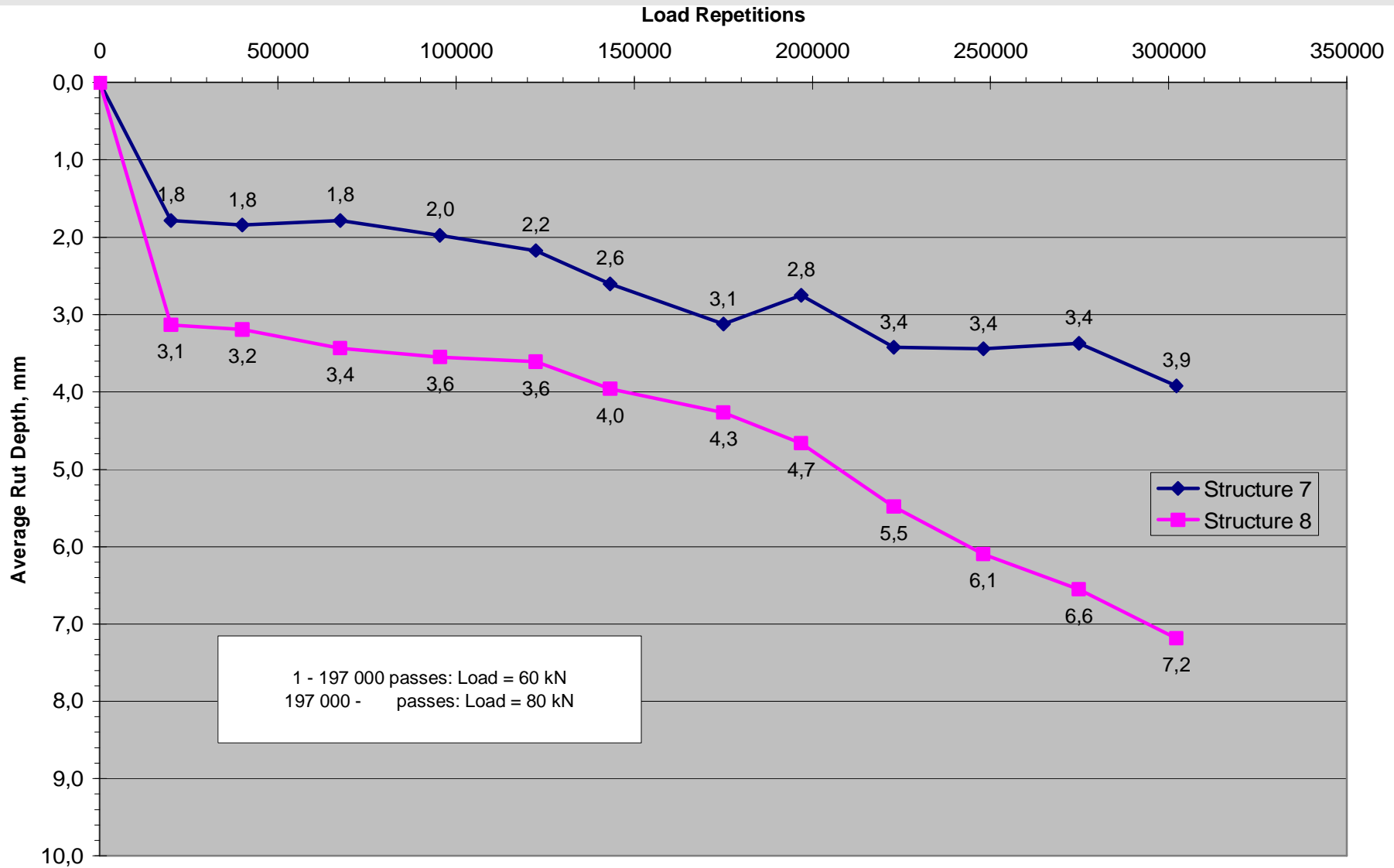
Influence of rainfall



Test Field 1 in Poland

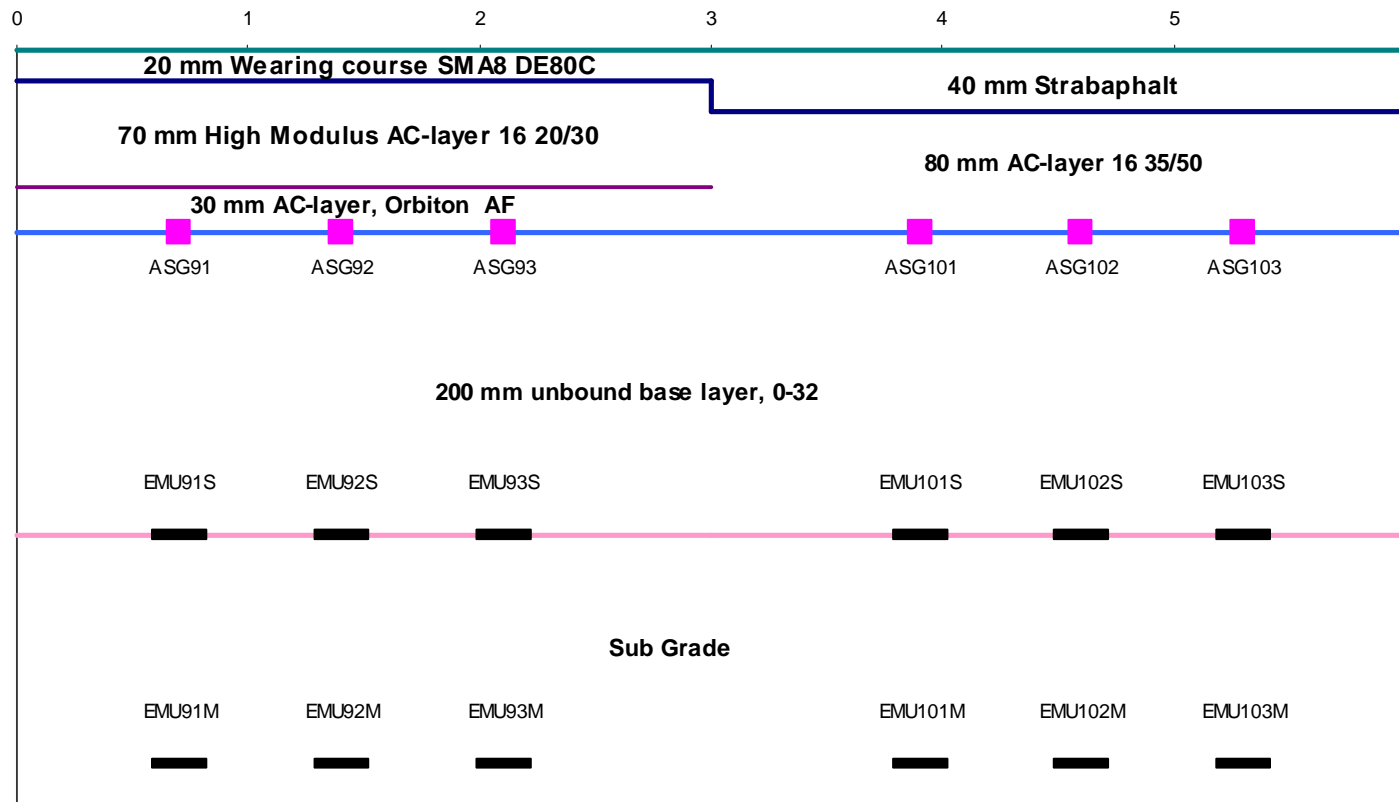


- Lateral AC strain
- Subgrade deformation
- ◆ Temp sensor
- ✱ Cross profile

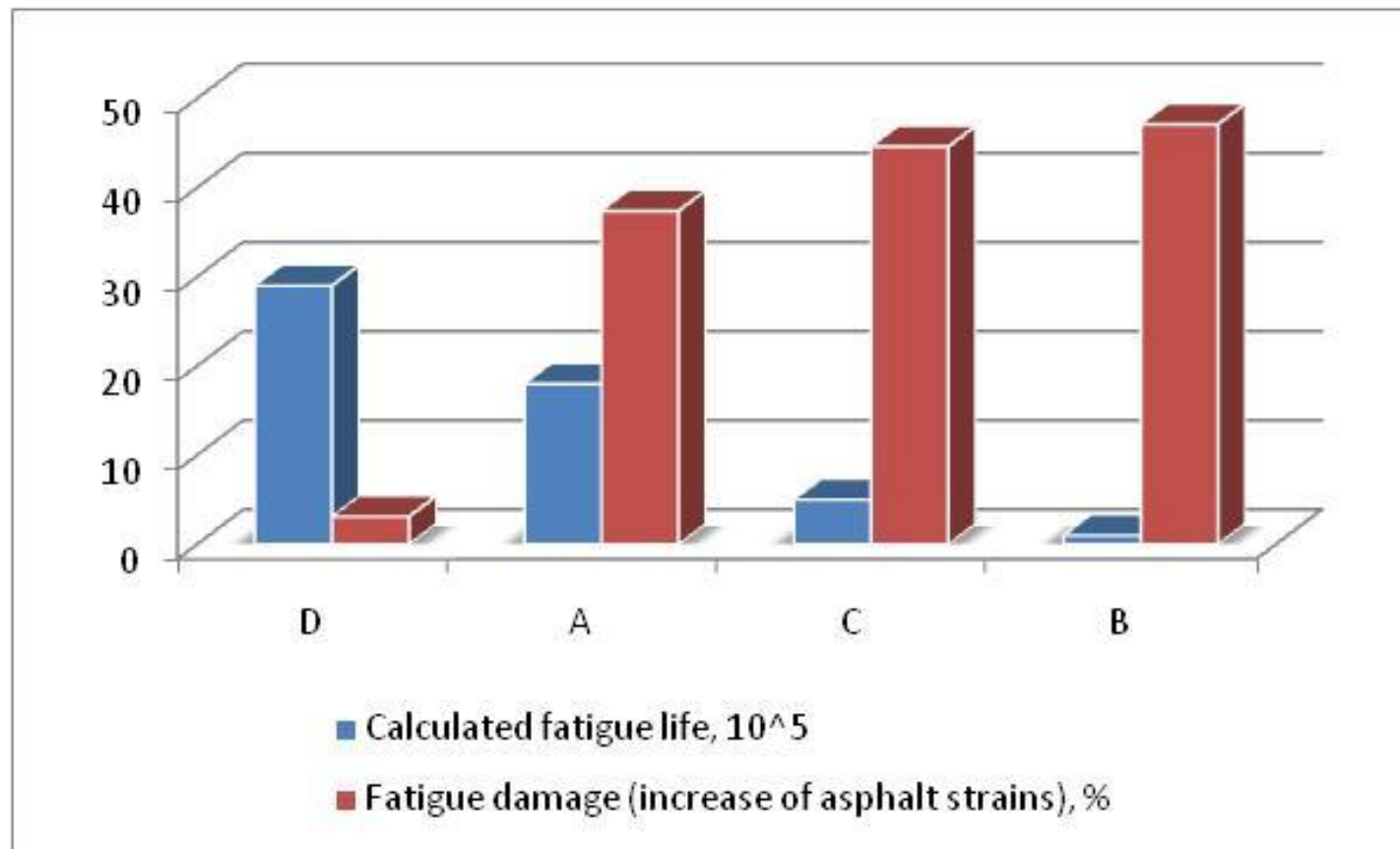


Test Field 2 in Poland

Test sections 9 and 10



Calculated fatigue life vs Fatigue damage



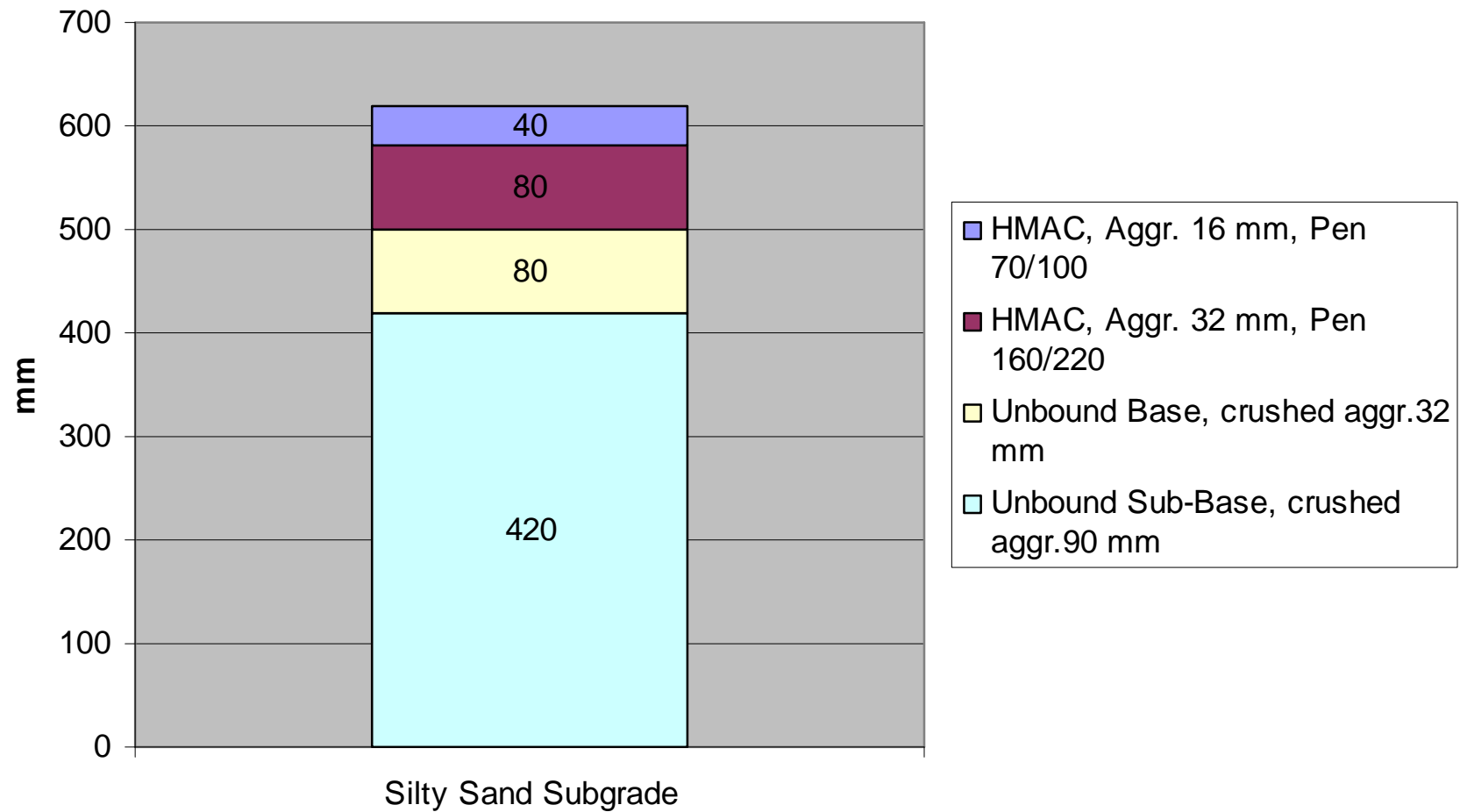
Fore more info

» www.spens.fehrl.org

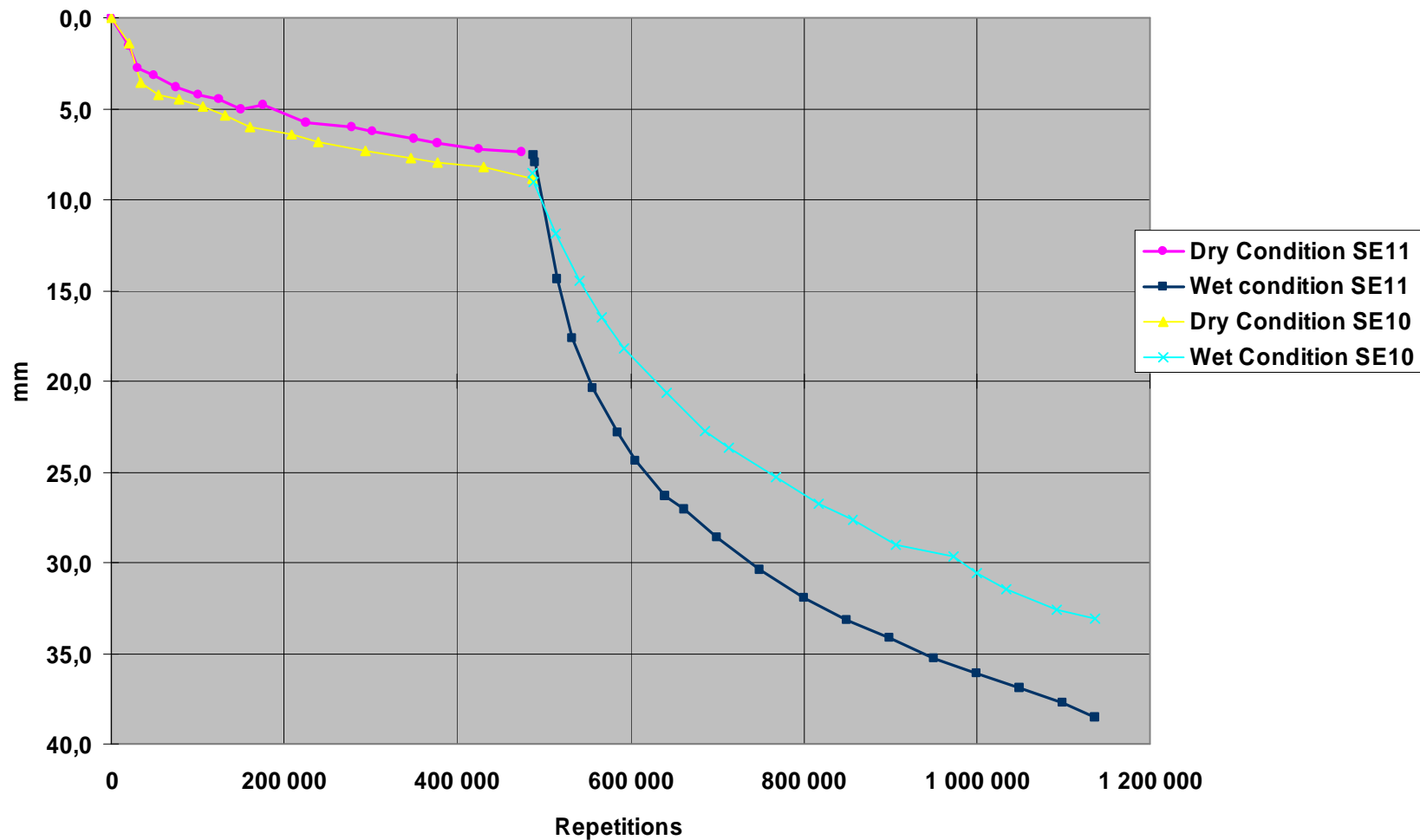
Latest test in Sweden

- » Repetition of the previous test in Sweden which was a reference test with a typical medium traffic volume structure according to the Swedish design guide

Test structure, Swedish reference



SE11 vs SE10



Longitudinal position 1 to 5

