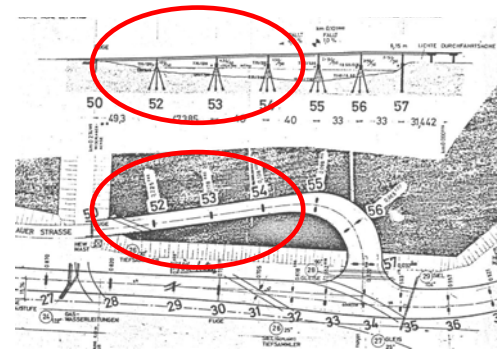


Köhlbrand Bridge, Hamburg, Germany

osmos

Integrated safety for structures



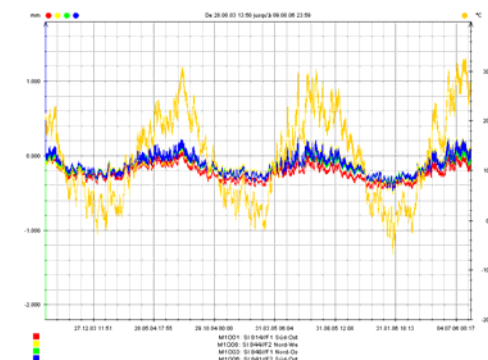
Instrumentation location



Flood detector near an Optical Strand



Dual 2-meter Optical Strands inside the bridge deck



Static deformations over 3 years

Bridge stability monitoring

Client

Hamburg Port Authority

Structure

4 km long bridge, with a central span of 325 m, built in the 1974
The largest cable-stayed bridge in Europe in its time.

Context

Age-related fissurations have been revealed in the prestressing structure decking of the bridge's western access ramp.
The client has immediately carried out the necessary repairing works.

Client's Needs

The client wishes to monitor the affected areas to detect any appearances of further damages.

Instrumentation Installed

- 8 Optical Strands
- 2 flood detectors
- 8 temperature sensors
- 1 monitoring station

Initial Results

Initial results show the bridge to be functioning in a safe mode.

Client Benefits

"Eighteen Months after its commissioning, an OSMOS system providing permanent inspection of the Köhlbrand Bridge has proven its worth in the eyes of the authorities and will provide a guarantee of safe operation of the structure for many years"

Hermann Jonetzki
Hamburg Port Authority