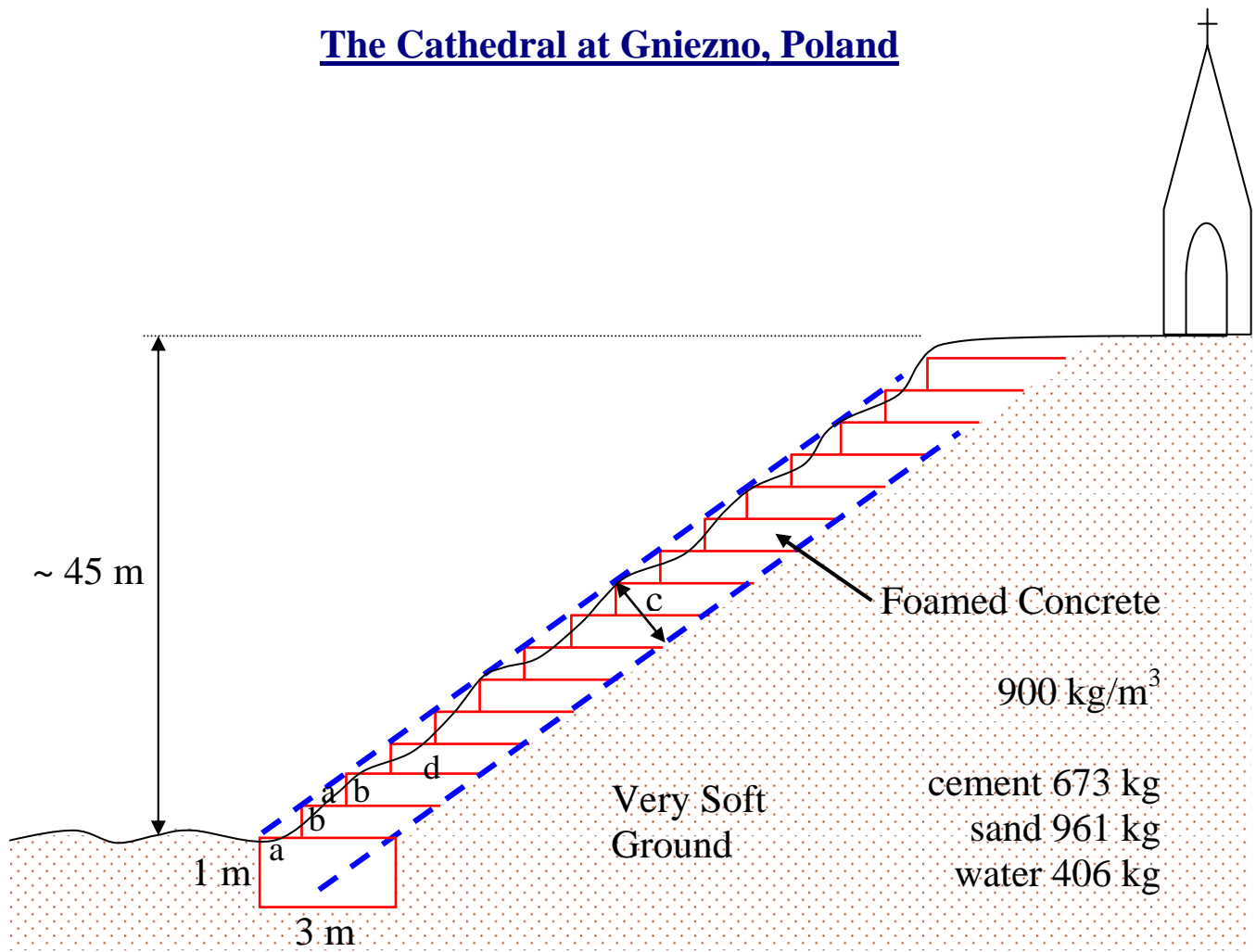


The Use of Foamed Concrete for Soil Stabilisation

The Cathedral at Gniezno, Poland



- a 0.5 - 0.8 m
 - b 0.5 m
 - c 2 m
 - d 2 m
- from this, 1m removed totally, 1m put on top of FC terracing below

In Gniezno, Poland, the cathedral is situated on a hill. In 1996 the hill started to slide. The cathedral is built on a site of national heritage since it is the birth place of Polish Catholicism. It was of utmost importance that the cathedral did not collapse. In order to protect the building the hill had to be stabilised. A layer of soil 2 metres thick was removed and replaced with foamed concrete of a dry density of 900 kg/m³. The foamed concrete was poured in stages, forming small terraces. In total 4,500 m³ of foamed concrete was placed for this job. This reduced the weight of the hill by 6,000 tons and stopped the landslide.