



## UPCYCLING AT ITS HIGHEST LEVEL

### Railway sleepers from Egypt



With about 1.5 million passengers and 16,500 tons of goods daily, the Egyptian state railway is an important means of transport in the country. Both the growth of the population and the economic performance indicate a strong demand in the future. With the second oldest railway network after the British one, Egypt has both tradition and the need for renovation.

The old oak sleepers are now obsolete and will be replaced by forward-looking materials. But the days of the old sleepers are far from over! Schorn & Groh enables the massive oak beams to shine in new splendour.

This is upcycling on the highest level – with a fascinating history behind it.



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EPH tested the material for polycyclic aromatic hydrocarbons (PAH). The sample taken is classified in category 1: „Materials in toys having normal and prolonged skin contact (longer than 30 s)“. An extract of the test report is given below. The complete test report is available on request (in German language).

The use of the sleepers indoors is therefore unproblematic.  
The material is certified according to FSC Recycled 100 .

**Table 1** PAH contents in 1 sample; expressed in [mg/kg].  
According to [2] permissible contents of 8 single PAHs (marked red): ≤ 1 mg/kg each.

Determination on subsamples	D5_light
Naphthalene	-
Acenaphthylene	-
Acenaphthene	-
Fluorene	-
Phenanthrene	0.2
Anthracene	-
Fluoranthene	0.1
Pyrene	-
Chryses	-
Benzo[a]anthracene	-
Benzo[b]fluoranthene	-
Sum of: Benzo[k]fluoranthene Benzo[j]fluoranthene	-
Benzo[e]pyrene	-
Benzo[a]pyrene	-
Indeno[1,2,3-cd]pyrene	-
Dibenzo[a,h]anthracene	-
Benzo[g,h,i]perylene	-
<b>Sum</b>	<b>0.3</b>

- indeterminable



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