OPTIMUM RESULT – EFFICIENT COMPACTION.

BW 226 DI-5 SINGLE DRUM ROLLER WITH POLYGONAL DRUM AND VARIOCONTROL TECHNOLOGY.

PROJECT AT A GLANCE

Client
AWG Donau-Wald mbH

Location
Außernzell landfill (landfill class II in the Deggendorf district)

Project scope

- Recompaction of two landfills owned by the operator. Uncontrolled subsidence of the landfill bodies was prevented by eliminating the cavities.
- Installation materials: Asbestos cement waste, artificial mineral fibres (MMMF refuse), mineral and other road construction waste.
- Goal: Improved stability and higher compaction density to prolong the lifetime of the landfill.
- Test operation of the BOMAG BW 226 DI-5 single drum roller on two test sites in the Außernzell landfill. The results were confirmed by identical tests on the Passau-Hellersberg landfill site (class I).

Project date
15 October 2019: Field trial, Außernzell landfill

Machine equipment
BW 226 DI-5, equipped with VARIOCONTROL and a compaction display in MN/m² as standard

Results
Test site 1, Außernzell landfill:

- Surface consisting mainly of compacted artificial mineral fibre waste, asbestos waste in Big Bags, and additional milled material containing tar to ensure better cavity filling.
- Result: An average settlement of 19 cm achieved with a fully regulated VARIOCONTROL exciter.

Test site 2, Außernzell landfill:

- Approach to the landfill body. This was already strongly pre-compacted by wheel loaders and delivery vehicles.
- Result: An average settlement of 13 cm.
- In the edge areas, it was possible to reach settlements of up to 40 cm.

Test verification on the Passau-Hellersberg landfill:

- Both tests on the Passau-Hellersberg landfill site confirmed the good results achieved by the BW 226 DI-5.

With an annual tipping volume of approximately 10,000 tonnes and taking into account the current residual volume, the use of the BOMAG BW 226 DI-5 single drum roller extended the life of the Außernzell landfill by roughly 10 years.

JOB REPORT

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