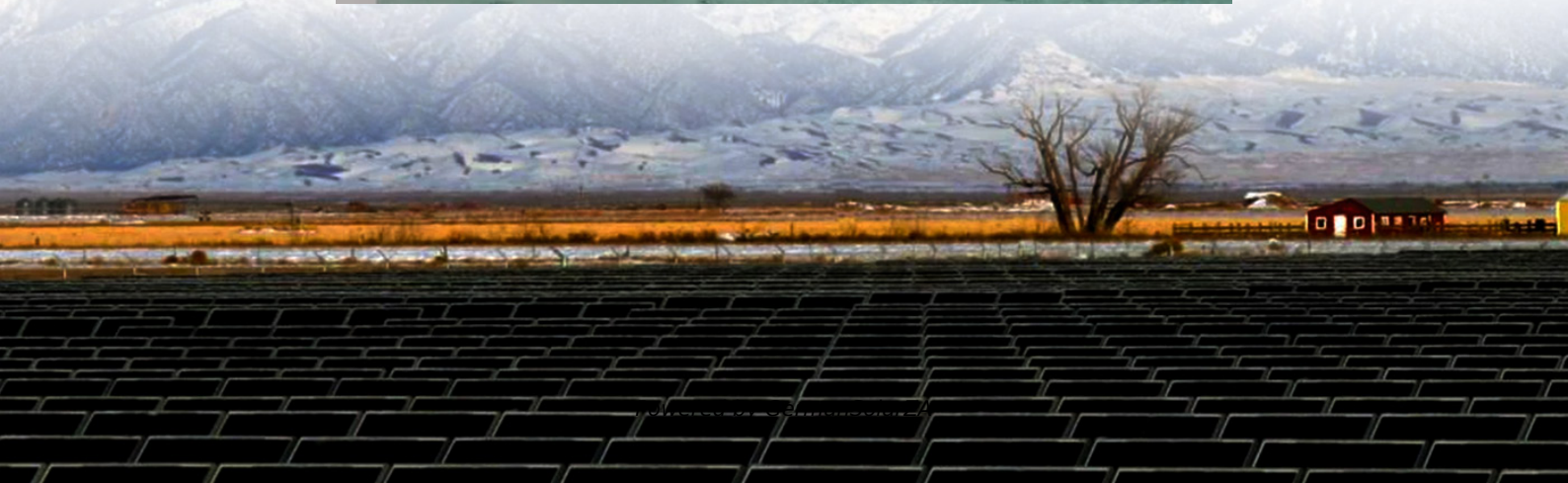


Waterproof Protocol for Photovoltaic Containers Used in Tunnels





Overview

Can a mined tunnel be used as a waterproofing system?

In case of double-shell constructions, the waterproofing layer is provided between the first and the secondary lining. By default, mined tunnels limit the selection of the water-proofing system to pre-installed membrane systems or integral waterproofing only. Externally or post-applied bonded waterproofing systems can not therefore be used.

What are the different types of tunnel waterproofing systems?

Cementitious Waterproofing Systems: Cementitious waterproofing systems consist of cement-based coatings or additives that are applied directly to the tunnel surfaces. These coatings form a protective layer that resists water penetration. **Bentonite Waterproofing Systems:** Bentonite clay-based systems are commonly used for tunnel waterproofing.

Why is waterproofing of tunnels important?

Abstract. Waterproofing systems of tunnels is of crucial importance for the long-term effectiveness of the underground works and for the possible impact on the surrounding environment.

What is a traffic tunnel waterproofing system?

In traffic tunnels, the waterproofing system is usually composed of the superposition of various layers of geosynthetics, namely:



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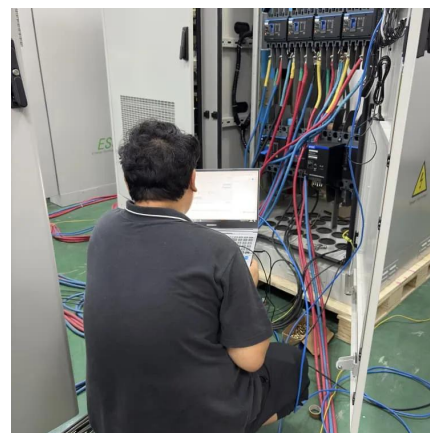
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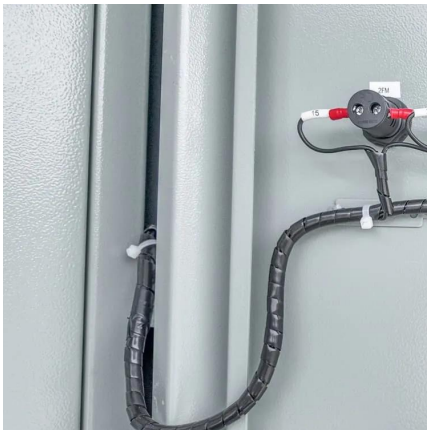
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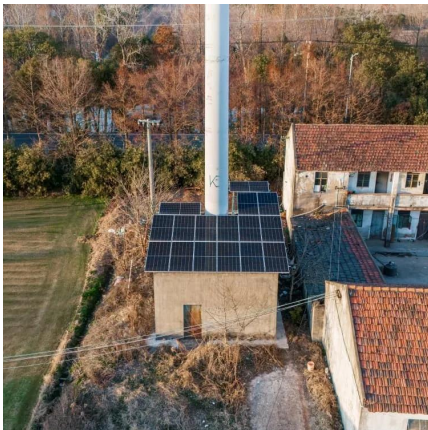


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