

Buster Tunnel using folding container fixed type





Overview

What are the different types of tunnel structures?

There are many different types of design and construction of tunnel structures, for example, tunnels formed by tunnel boring machines with different types of linings, diaphragm walls, drill-and-blast, mined tunnels, immersed tube, in-situ reinforced concrete structures, etc.

How should a tunnel be maintained?

(1) Adequate and safe maintenance access to all locations and components of the tunnel for inspection and maintenance should be provided. Side access (designated shaft or incorporated in cross passage) to overhead ventilation duct should be provided wherever possible, instead of opening at ceiling slab.

What is a road tunnel?

A road tunnel is a subsurface structure for vehicular traffic constructed through or under an obstacle. This obstacle may be in the form of other infrastructure development, natural terrain, a mountain, a body of water or the combination of the above.

Which type of tunnel design is best for drill-and-blast rock tunnels?

Undrained tunnel design with complete waterproofing layer is the preferable tunnel design option for drill-and-blast rock tunnels. If drained tunnel design is to be adopted for drill-and-blast rock tunnels, waterproofing layer should be provided at tunnel crown and behind tunnel walls of tunnel lining.



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[Research on internal explosion loads in folded arch tunnels: ...](#)

May 1, 2024 · To elucidate the loading characteristics in the folded arch tunnel subjected to internal explosion, a field blast test was conducted in a large-scale ...

[Large-scale inflatable structures for tunnel protection: a ...](#)

Aug 12, 2022 · The full-scale tunnel mockup configuration was modified to simplify the integration of the plug and removable container module, which required the development of new handling ...



[Guidance Notes on Design of Road Tunnel Structures ...](#)

Mar 10, 2023 · For the purpose of these Guidance Notes, road tunnel structures should include all major structures of a road tunnel, including permanent structural lining, structural ...

[Experimental Investigation of Initial Deployment of ...](#)

Jun 6, 2020 · This work presents results of experimental work performed for the evaluation of initial deployment and inflation of a prototype inflatable structure installed in a rail transit



tunnel ...



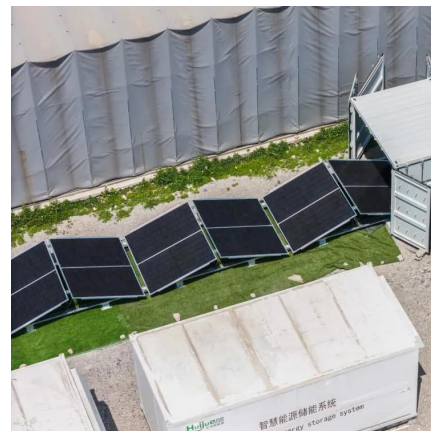
Large-scale inflatable structures for tunnel protection: a ...

Jul 10, 2025 · Abstract The protection of underground civil infrastructure continues to be a high priority for transportation and transit security agencies. In particular, rail transit tunnels running ...



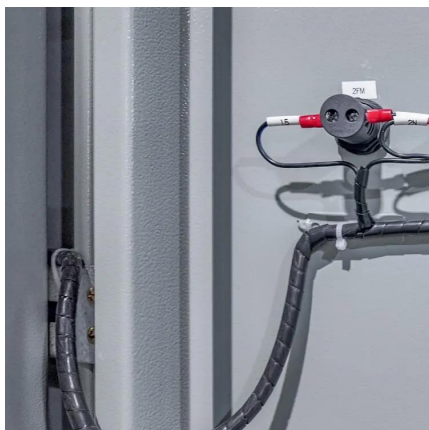
Finite element simulation of deployment of large-scale ...

Jul 1, 2016 · In the recent years, alternative solutions have been proposed to seal tunnel segments susceptible to the consequences of extreme events. One type of thin-walled ...



Inflatable folding tunnel reinforcement structure and ...

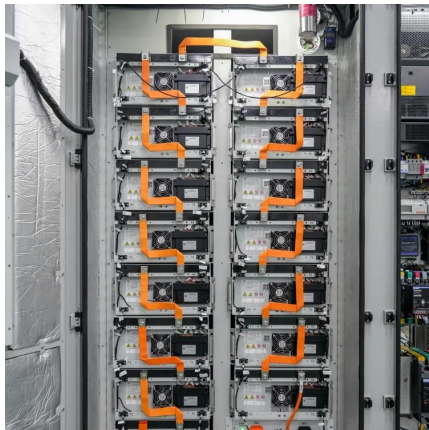
The inflatable folding tunnel reinforcement structure includes an inflation port, an airbag, a water blocking net, a steel plate, a scissor folding mechanism, a vertical support plate, an arc ...





Finite Element Simulation of Deployment of Large-Scale ...

Apr 5, 2021 · The tunnel section is assumed to be a rigid body fixed in X, Y, and Z directions. In the modeling of folded membranes initial errors and mesh distortions are introduced inevitably ...



FE simulation of ceiling deployment of a large-scale inflatable

Jul 1, 2019 · Preparation, folding and installation of the inflatable occur during Phase 1; in this phase, the inflatable structure is folded and placed within a portable container that is then ...

Simulation of Controlled Deflation, Folding and Inflation ...

Jan 19, 2024 · Abstract: Transportation tunnels have been identified as particularly vulnerable to different threats such as propagation of toxic gases, or smoke originated by human activities, ...



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