

First design of an inflatable tunnel with peeling problems

Cheap tunnel made of foil material (for example plastics) make it possible to purify exhaust gasses and reduce sounds without the need of a heavy foundation. This makes it possible to use this tunnel to reduce the sounds the HSL train is making where it is placed on concrete foundations that cannot carry a heavy sound absorbing system. This makes it possible to outer caps the trail to reduce sounds.

Compartments are necessary to make the tunnel retain its shape when under air pressure. Holes are made in the compartments so air can be inserted between inner and outer walls to fill the tunnel with air or a sound absorbing foam.

detail A

closed outer and inner wall

possible air delivery to keep the tunnel in its shape. This can also be the filling point when filling the tunnel with a sound absorbing foam

Possible delivery of air to keep the tunnel in its shape
A big fan can do this

detail A

Outside walls can be used for advertisement or to print on trees. South side can be used for solar panels