



Basotect®

Bombardier uses Basotect® in its subway cars for noise and thermal insulation

Thanks to its unique properties, the melamine resin foam Basotect® is, for many customers, the leading solution for noise reduction and thermal insulation in subway cars. Due to its open-celled, fine foam structure, its noise absorption values for the middle and high frequency ranges are very good. Riders of the Montreal subway system will enjoy lower noise levels in the cars and perceive the environment as more pleasant overall.

With a density of just 9 kg/m³, Basotect® also helps reduce the overall weight of the cars. That helps increase the energy efficiency of trains from Bombardier. The use of Basotect® enabled Bombardier to achieve 35% weight savings for insulating the ceiling.

With a thermal conductivity of less than 0.035 W/m·K, the foam helps reduce the loss of thermal energy, thus maintaining a comfortable room temperature. The low flammability of Basotect® ensures that the material fulfills the fire protection standard ASTM E162/E662 and E1354. These standards define the fire protection requirements for materials and components that are used in trains in North America. In addition Basotect® meets the European standard, EN 45545-2.

The melamine resin foam Basotect® is easy to process through slitting and wire cutting, sawing and milling, enabling perfectly shaped and dimensioned, installation-ready components.



The melamine resin foam Basotect® from BASF is being used for thermal and noise insulation in the ceiling area of 468 new subway cars that Bombardier is building for the subway system in Montreal, Canada. (Photo: Bombardier, Inc., 2014)