



**Product Used**

Pyrogel® 6350

## Aerogel Insulation Takes You to the Olympics

Innovative solution to protect electrical cabling in new Beijing subway trains

**Fabrication and Installation Partner**

Hochuen (Shenzhen Nano-Energy Solution Technology Co., Ltd.)

**Challenges**

- High performance insulation was required to protect the electrical cables from excessive heat generated by electrical equipment located in close vicinity.
- The design space for insulation was just 10 mm.
- The insulation performance required fire resistance, water resistance, and ageing properties typical for train applications.

**Aerogel Solution**

- Hochuen developed a solution with fiberglass-encapsulated **Pyrogel® 6350**, which met both the performance and installation requirements of the space-restricted opportunity.
- The parts were pre-cut and fabricated to facilitate easy on-site installation.

**Benefits**

- Hochuen's solution reduced the temperature to below the recommended performance limit of the cabling.
- It was a cost-effective solution for the space-restricted opportunity. The alternative was a complete redesign of the train undercarriage.

