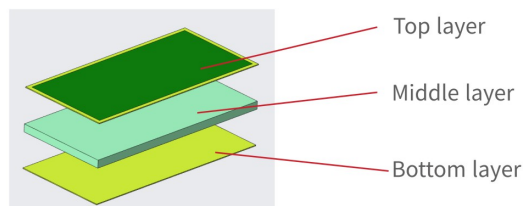
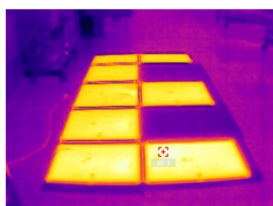




GRAPHENE HEATING FLOOR

STRUCTURE AND THE FUNCTION ▶▶▶

Grapheme heating floor is sandwiched structure composed of top layer, middle layer, and bottom layer through adhesive bonding. Grapheme is printed into the top layer, and can be heated up to 35-60 °C.



1. **Top layer** - Flame retardant epoxy board with a heating grapheme layer printed inside, which generates heat by electricity. Flatwise compressive strength > 3MPa, flatwise tension strength > 3MPa and staining resistance meets ISO 4586-2:2018, clause 30, rating 4.
2. **Middle layer** - Foam material, as the main structural member, plays a supporting role and has the function of heat insulation.
3. **Bottom layer** - Flame retardant epoxy board same as the top layer but without heating grapheme layer.

MAIN CHARACTERISTICS ▶▶▶

- **Power type:** AC/DC 24V~400V.
- **Power density range:** 300~600W/m².
- **Floor temperature range:** 35~60°C (e.g. heating to 50°C within 10min under 500W/m²).
- **Damage resistance:** no effect to the integral heating even when suffered local damage.
- **Certification:** ISO/TS 22163 (IRIS), DIN 6701.
- **Material fire hazard level:** EN45545-2 HL2/HL3.
- **Design life:** 30 years.

CAPABILITIES ▶▶▶

- Conduct all required tests defined by EN45545-2/3, ISO 15186-1, ISO 8302, ISO 9142, IEC 61373, RoHS, REACH.
- Design & manufacture: according to customer's requirements.

PLEASE FILL THE TABLE BELOW FOR ANY ENQUIRE ▶▶▶

Train type	<input type="checkbox"/> Intercity; <input type="checkbox"/> Regional; <input type="checkbox"/> Suburban; <input type="checkbox"/> Inner city; <input type="checkbox"/> High speed train; <input type="checkbox"/> Other				
Operation area	Country/city		Power density	W/m ²	
Power source	AC/DC		Standard(s)		
E-mail					

Product details can be found in website: <http://www.zztmt.com/zztmt/>