

Zoppas Industries

Heating Element Technologies

integrated heating systems

January 2018

ZOPPAS INDUSTRIES GROUP



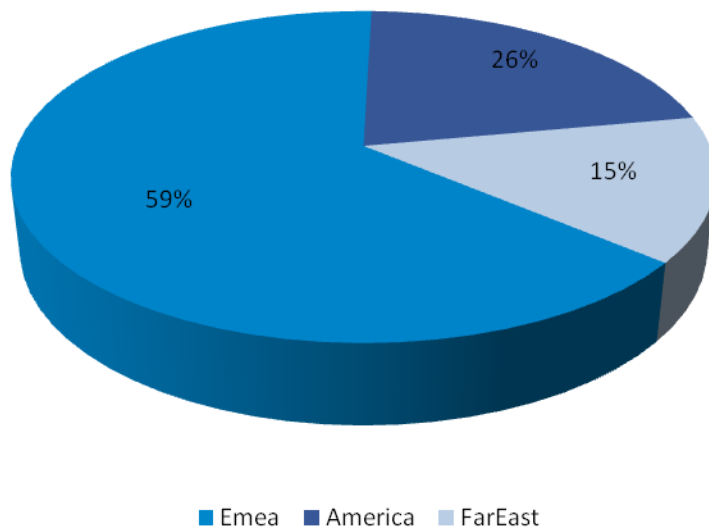
 HEADQUARTER

 ZOPPAS INDUSTRIES Heating Element Technologies

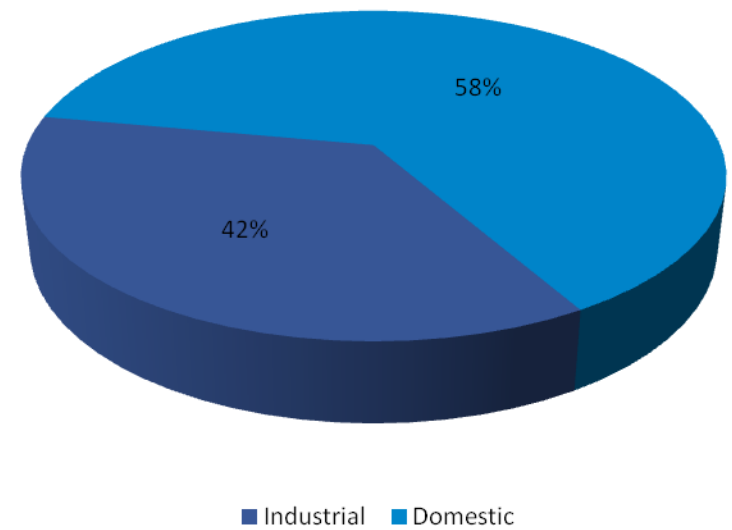
 SIPA

HEATING ELEMENT TECHNOLOGIES Key figures

Sales by geographic region



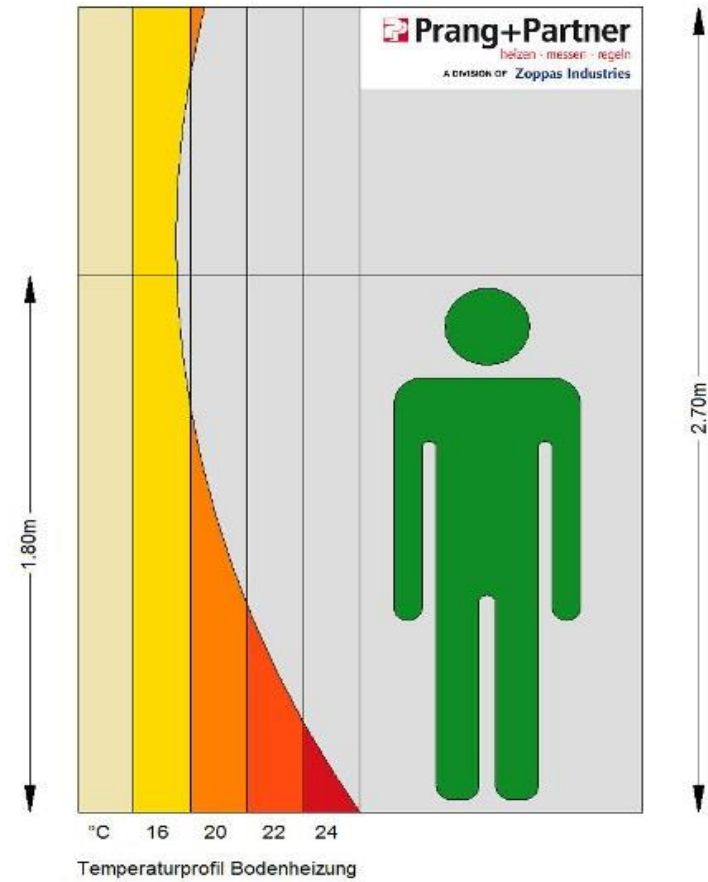
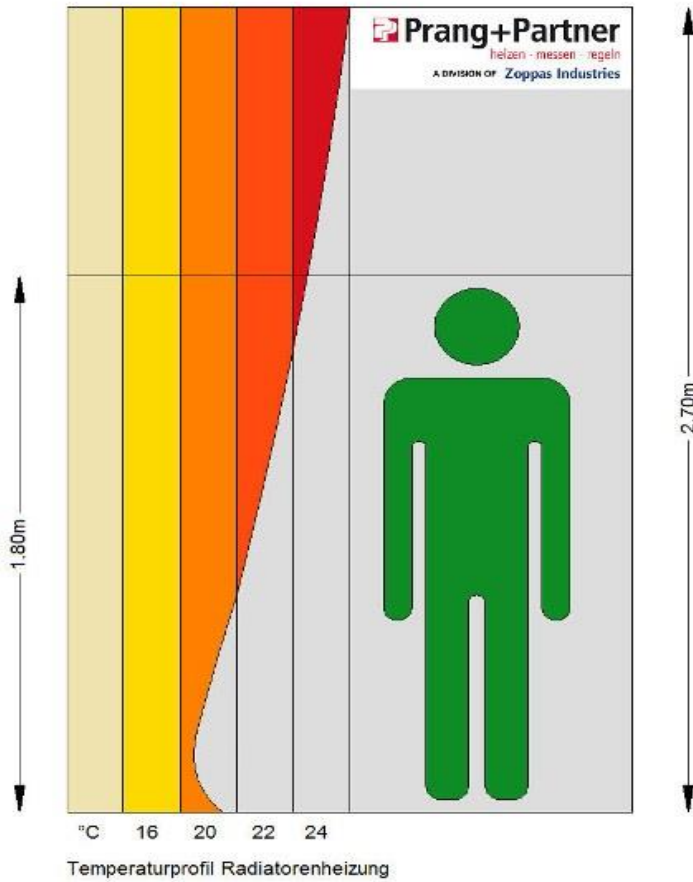
Sales for main business area



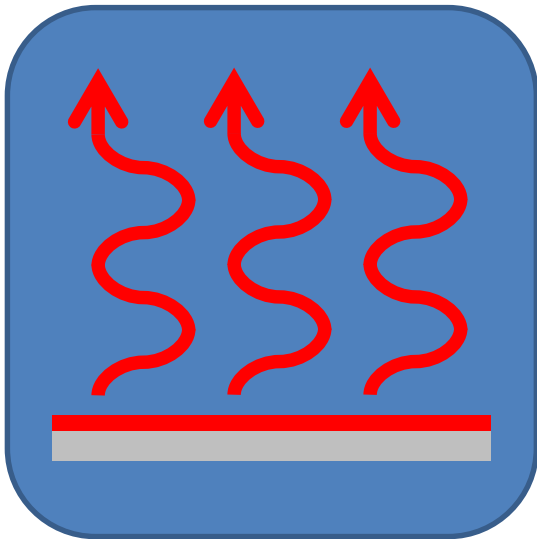
Zoppas Industries

APPLICATIONS

HEATING ELEMENT TECHNOLOGIES: GROUP COMPOSITION



Unique selling proposition (USP) – for a lifetime



electrical heating



thermal isolation



self-supporting

Floor heating – special applications



Improved passenger comfort

- * uniform heat distribution
- * more legroom / headroom

Reduced LCC

- * lower energy consumption
- * zero cleaning costs

High operational reliability

- * fully sealed system
- * 100% tested before assembly

Environmental compatibility

- * reduced CO₂ footprint
- * recyclable

References – zero non conformity



Project: *Kiss SBB, Swiss Railways, 50 units 6 cars, 24 units 4 cars*
Customer: *STADLER Altenrhein, Switzerland*
Product: *passenger floors, sidewalls, maintenance cover, threshold bars*



Project: *Kiss BLS, Bern Lötschberg Bahn, 28 units 4 cars*
Customer: *STADLER Altenrhein, Switzerland*
Product: *passenger floors, sidewalls, maintenance cover, threshold bars*



Project: *Kiss Westbahn Austria, 7 units 6 cars*
Customer: *STADLER Altenrhein, Switzerland*
Product: *passenger floors, sidewalls, maintenance cover, threshold bars*



Project: *Kiss VNS, ODEG, Ostdeutsche Eisenbahn GmbH, 16 units 4 cars*
Customer: *STADLER Pankow, Germany*
Product: *passenger floors, sidewalls, maintenance cover, threshold bars*

GROUP COMPOSITION

Layout example



GROUP COMPOSITION



GROUP COMPOSITION



GROUP COMPOSITION



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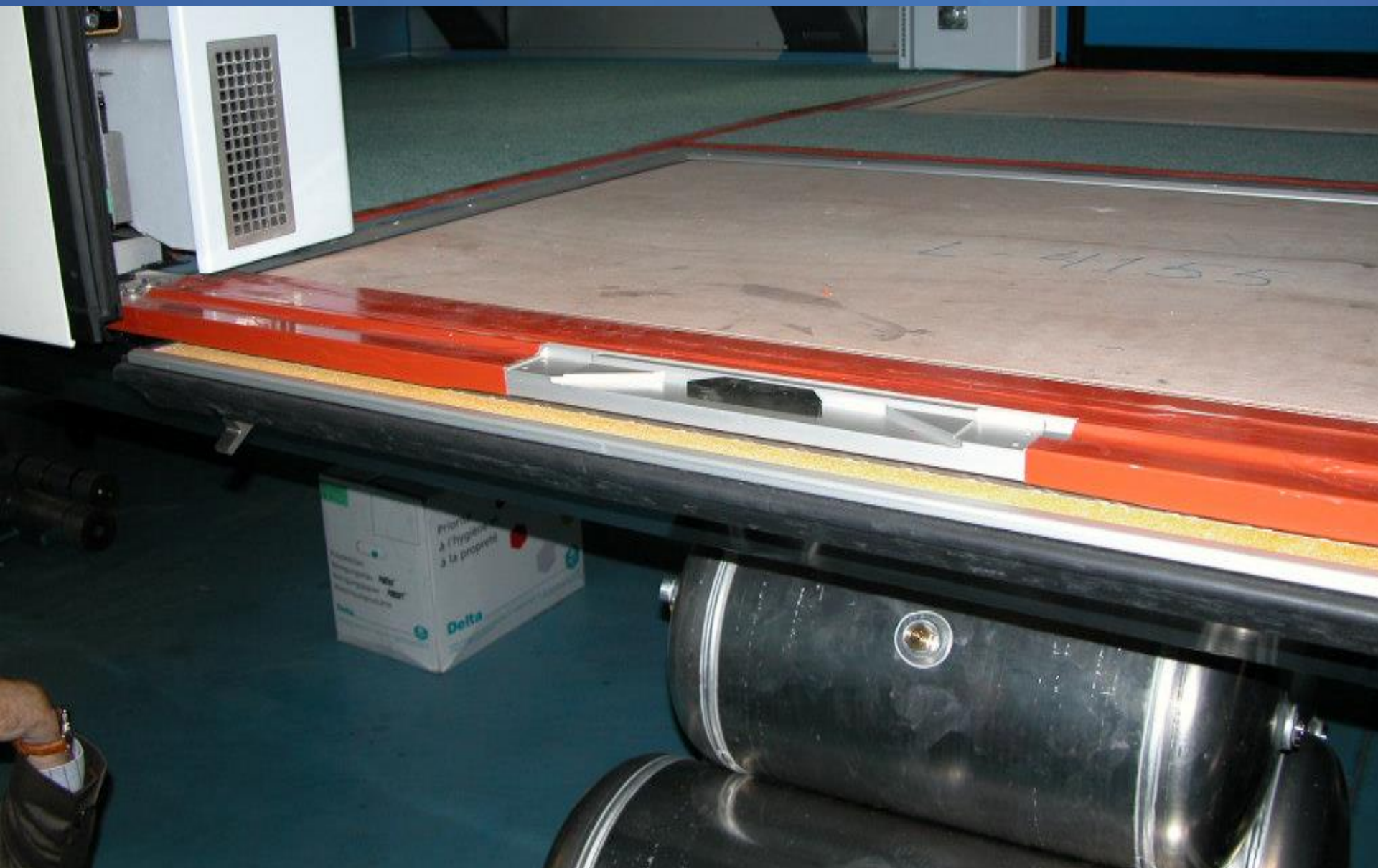


GROUP COMPOSITION

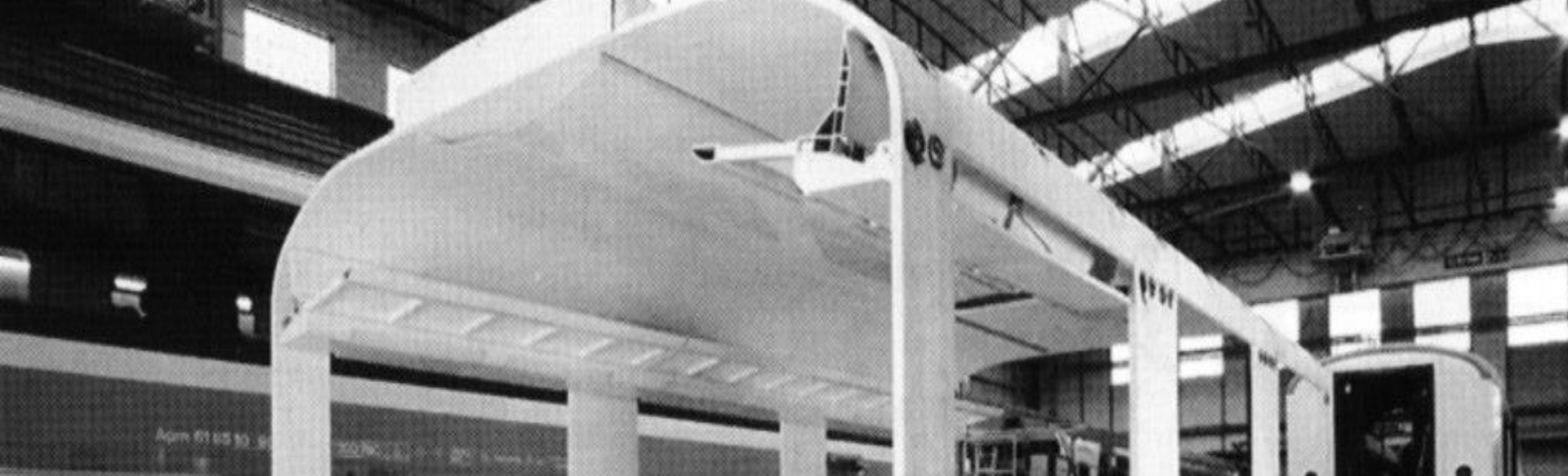


Sistemi
Territoriali
L-4160

GROUP COMPOSITION







+15 years experience with heated flooring

