

ZFoam

Thermal and acoustic insulation
Fire barriers
Vibration Dampening
Air and water sealing

We provide **tailor-made solutions** focused in our customers' needs with a strong **technical support**.

Specialized conversion and supply of **final parts for thermal and acoustic insulations, vibration dampening, fire barriers and water and air sealing**.

Closed supply cycle than may include the engineering and development of final parts from 3D configurations.

CONVERSION PROCESSES AVAILABLE:

- ✓ Water jet cutting (2D/3D)
- ✓ CNC cutting
- ✓ Routing (2D/3D)
- ✓ Lamination of different substrates
- ✓ Adhesive coating
- ✓ QR labelling

Advantages

- + **Lightweight solutions:** important reduction of the total weight of the insulation system and improvement of the operational costs.
- + **Integration** of low temperature/ high temperature/ fire barrier materials.
- + **Software tools** for easy installation.
- + **Kitting and ready-to-install sets** with full traceability of the final parts.
- + **Dedicated engineering team** with high flexibility in new projects and modifications.

ZFoam is the company in the sector with the **highest CNC cutting capacity** in Southern Europe.

HVAC INSULATION

Thermal and anti-condensation insulation for air conditioning ducts.

Insulation of air-conditioning units
Winterization

- ✓ No water absorption
- ✓ EN 45545-2 compliance

CAR BODY INSULATION

Thermal and acoustic insulation for roof, side walls, floors, passages between cars & driver's cab.

Winterization

Drainage systems for condensed water vapor

Materials with low thermal conductivity for use in confined spaces

- ✓ High thermal efficiency
- ✓ Improved acoustic comfort
- ✓ Compliance EN 45545-2 at levels HL1/HL2/HL3

AIR AND WATER SEALING

Sealing gaskets
Air/water filtering

- ✓ Waterproofing test available

VIBRATION DAMPENING

Parts for **floating floors**
Extreme shock absorption
Foamed rubber parts

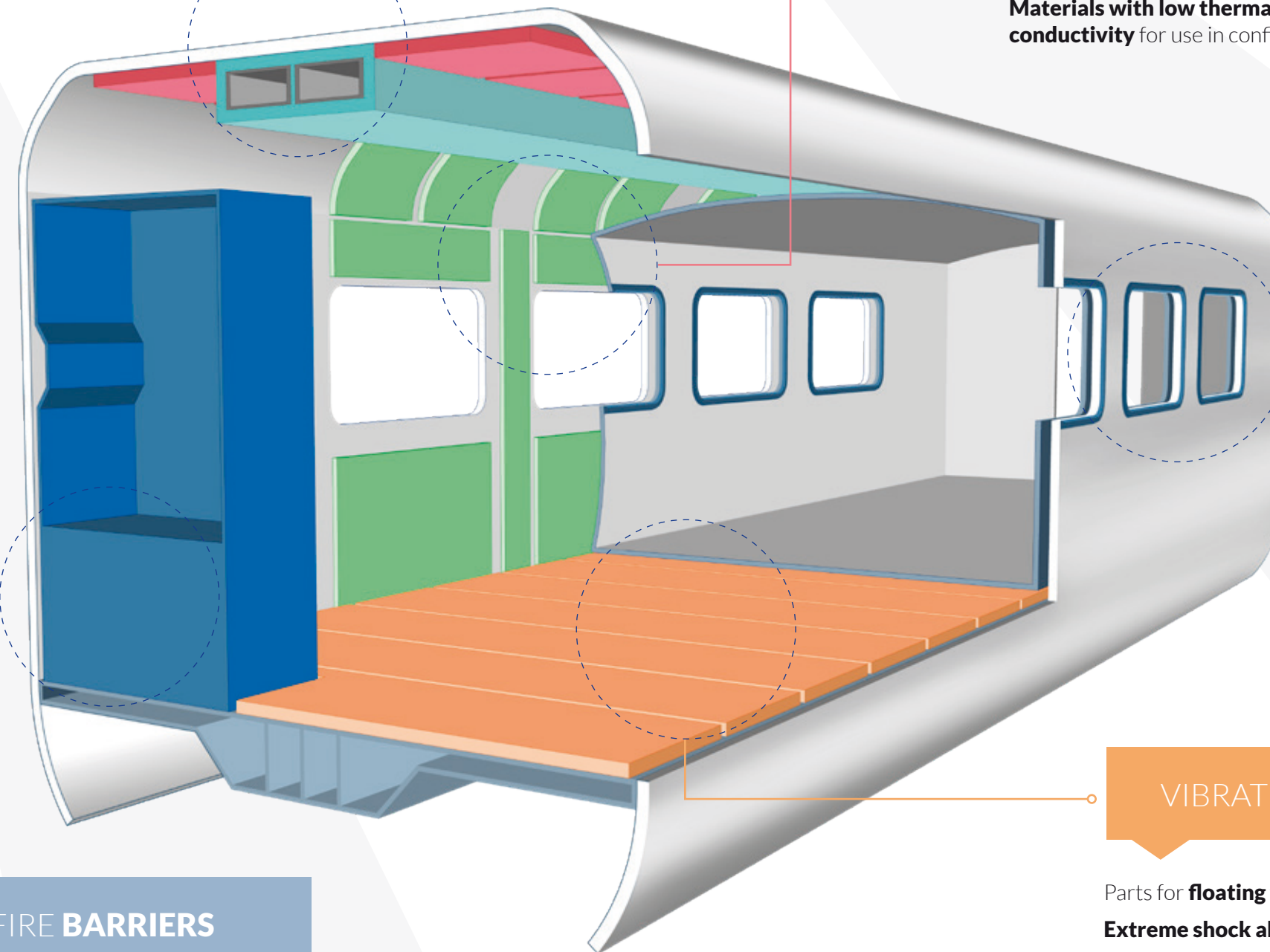
- ✓ Elastomeric materials under EN 45545-2

FIRE BARRIERS

Silica-based microporous insulation with temperature resistance up to 1200°C.

Intumescent fire barrier materials
Rock wool

- ✓ Flexible materials
- ✓ High temperature resistance



MATERIALS

✓ **Fire and smoke safety**

Compliance with **EN 45545-2 at HL1 / HL2 / HL3** levels.

✓ **Energy savings**

Grades with very low density and no water absorption **allowing weight savings over the lifetime of the vehicle.**

✓ **Environment**

Recycled and recyclable materials available, **REACH compliant, CFC, HCFC and volatile compound free (OPD zero). Halogen-free material options (HF)**

✓ **Durability**

Grades with **no water absorption and resistant to bacterial and mould growth** which reduces long-term maintenance needs.

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Insulation at low temperatures (<100°C)

- + **Plastazote® LD 15 FM Alu and MP 15 FR**, closed cell polyolefin-based foams manufactured by nitrogen pressure injection.
- + **Plastazote® LD 15 FR HF Alu**, halogen-free.
- + **Zetafelt®, polyester fibre.**
- + **Melamine foams.**
- + **Moniflex® cellulose-based insulation panels.**
- + **Elastomeric mats.**
- + **Fiberglass.**
- + **Special materials (aerogel and PIR)** with very low thermal conductivity value ($\lambda < 0.020$).
- + **Multilayer products.**

Insulation at high temperatures (100-1200°C)

- + Silica-based **microporous insulations** with temperature resistance up to 1200°C.
- + High density **fiberglass** mats with resistance up to 600°C.
- + High temperature resistant **fiberglass fabrics.**
- + **Rock wool** in fire barrier applications.
- + **Intumescent** fire barrier materials.

Vibration dampening and sound insulation

- + **Heavy foils** (polymeric and bitumen).
- + **EPDM and CR based solid rubber.**
- + **Regufoam®** vibration dampening foams.

Water and air sealings and filtering

- + **Self-adhesive foamed rubber (EPDM, CR)** in strips and finished parts.
- + Special Foam grades for water and air filtering.

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TECHNICAL FOAMS AND INSULATIONS



Commitement to innovation and quality

Continuous improvement philosophy for products and processes.

Commitement to customers

Provide the best solutions based on **innovation, competitiveness, high quality and respect to the environment.**

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 | RAILWAY