

Rail



High quality
**seating
solutions**



Vita develops and manufactures a wide range of products to provide seating solutions for safe and pleasant journeys.

Our products include, but not limited to, the following **characteristics**:



Noise Control



Safety Critical



Bespoke



Durable



Comfortable



Flame retardancy



Ergonomic



Dependable

Our products and services include, but not limited to, the following **end uses**:



FOAM CUSHIONS

- Seat cushions
- Backrest
- Leg rest
- Headrest
- Armrest



COVERS

- Textile covers
- Seat & backrest covers
- Mattress covers



INSULATION

- Acoustic applications
- Thermal applications



MATTRESSES AND TOPPERS

- Mattress foam cores
- Upholstered mattresses
- Comfort & Hygiene toppers



SERVICES

- Flammability certification
- Ergonomic & Comfort workshops
- Design workshops
- Solution provider



For further information, please contact your Vita representative

www.thevitagroup.com



Rail: Application Overview



Vita Technical Foams

The Vita Group

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Vita products can be used for a wide range of rail interior applications. This portfolio enables to offer the right product for customers specific application need.

Foam Cushions:



The Vita Group cushion portfolio includes [headrest](#), [backrest](#), [bottom cushions](#) as well as special designs.

Different selection of shapes and materials ensure the perfect seating position and allows great freedom of design, function and [comfort](#) range.

Depending on your needs, our portfolio offers products with the focus on maximum performance in terms of [flame retardancy](#) for selected projects, but also products with focus on good value for the majority of rail seating application.

Our cushion portfolio is compliant with [EN45545-2 \(HL 1- 3\) / EN16989](#) and [BS 6853 cat 1b / BS 5852 crib 7*](#).

*depending on dress cover

Mattresses and Cover Parts:



The Vita Group supplies high quality [mattresses](#) and [cover parts](#) for both day and night trains.

Our products can be adapted to any design and [mattresses](#) can be optionally equipped with Vita's toppers which increases comfort and enables optimal sleep hygiene. We also offer integrated solutions e.g. [customised foam](#) areas and channels for increased [comfort](#) and sleeping climate.

Our mattresses and cover parts are compliant with [EN45545-2 \(HL 1- 3\) / EN16989](#) and [BS 6853 cat 1b / BS 5852 crib 7*](#).

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Armrests:

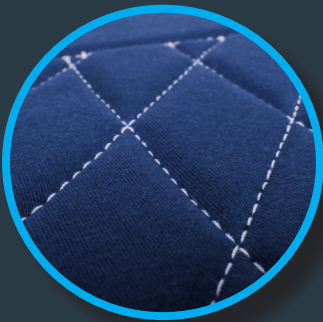


To complement our portfolio, Vita also offers [armrests](#) for railway seats.

The armrests are especially designed for ready-to-install applications with the focus on [design](#), [feel](#) and [durability](#). The freedom of design allows almost every design to be achieved. Additional use of fabric is no longer needed.

Our [armrests](#) are compliant with [EN45545-2](#).

Dress Covers & Upholstery:



The Vita Group offers [cushions](#) and [dress covers](#) for railway seats, [mattresses](#), and cover parts including cut and sew of fabric, leatherette and leather as well as [padding](#), [stitching](#), [embossing](#) and [edging](#).

You benefit from a comprehensive service which includes joint prototype workshops, selection of suitable materials, initial sampling and tool construction to reliable series production.

Insulation:



The Vita Group insulation offering includes foams for [acoustic](#) and [thermal applications](#).

The high mass of 85 kg/m³ helps to reduce vibration in metal enclosures dampening drumming and noise. Acoustic performance is good and absorption coefficients are typical for a cellular material.

Our insulation offering is compliant with strict underground rail seating requirements as well as [BS6853](#) and [EN45545-2](#).



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Rail: Product Overview



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Vita develops and manufactures a wide range of products which are designed to fulfill almost every crucial flammability standard, while being comfortable, durable and customized designed at the same time.

Metzo Super Foams:



The product focus is on **maximum performance** in terms of **flame retardancy** for selected projects. Application include **headrest, backrest, seating cushions** and **mattresses**. Metzo Super Foams are more cost efficient as you no longer need an intensive fire blocker.

Our carbonised graphite PU foams are especially developed to fulfil highest flammability requirements, in particular of **En45545-2 / EN16989** and **BS 6853 cat 1b / BS 5852 crib 7**.

Depending on your need, Metzo Super Foams are available either as **moulded foam (HM06)** or **slabstock foam (SF01)** as well as **cut foams** and **foam cores** for **mattresses**. Thus you can select the product which suits more in terms of application need, design, comfort, project volume and budget.



Bespoke



Durable

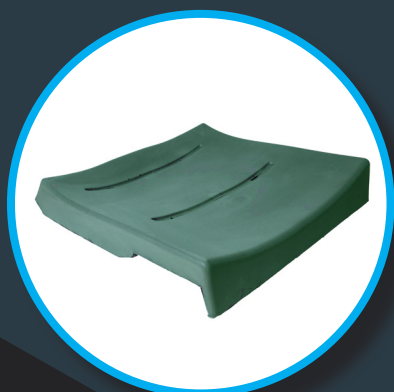


Comfortable



Flame retardancy

Metzo Performance Foams:



The product focus is to offer a **good value product** that is suitable for the majority of rail seating applications. Application include **headrest, backrest** and **seating cushions**.

EcoProtect is a melting melamine PU foam grade which is especially developed to fulfil almost every requirement of **EN45545-2 / EN16989***.

EcoProtect is available as **moulded foam**, which allows great freedom of design, function and comfort range.

*depending on dress cover



Bespoke



Durable



Comfortable



Flame retardancy



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Metzo Design Foams:



MetzoGral EN offers **bespoke** and comfortable ready-to-install armrest applications without the need for additional use of fabric. Additionally, it can be used for seat pan in trams or metros.

MetzoGral EN is an injected **moulded foam** grade which is compliant with **EN45545-2**.

Vita fulfils almost every design including the integration of metal or wooden inserts, as well as painted versions.



Bespoke



Durable



Comfortable



Flame retardancy

PYROFLEX-VFR2/140:



PYROFLEX-VFR2-140 is an open cell flame retardant, high resilience impregnated polyurethane foam. Vita originally developed this as a safety critical foam to meet the stringent requirements of **BS6853** and **EN45545-2**, for use as **seat trim foam** for **underground rolling stock**. It can be supplied in sheets or cut parts either plain foam or self adhesive.



Safety Critical



Durable



Comfortable



Flame retardancy

PYROSORB-E:



PYROSORB-E is an **open celled acoustic/ thermal polyurethane foam**. The high mass of **85 kg/m³** helps to **reduce vibration** in metal enclosures dampening drumming and noise. Acoustic performance is good and absorption coefficients are typical for a cellular material.



Safety Critical



Durable



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Flame retardancy



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