TU Darmstadt

Specialist area of steel construction

About this organisation

Machine translation

This organisation has been machine-translated based on data provided in German.

The Department of Steel Construction at TU Darmstadt conducts research in the field of sandwich elements in the construction industry. Sandwich elements with steel facings and a thermally insulating core made of PUR/PIR foam or mineral wool are the most widely used. Due to the low density of the core materials used, the elements are so light that even large components can be laid by hand.

Due to their good combination of space-enclosing, heat-insulating and load-bearing functions in combination with very fast installation, the elements are used particularly in industrial construction, but also increasingly in public and office buildings as wall cladding and roofing. Our research is currently focussed on expanding the areas of application through possible variations in geometry and on ecological alternatives to the core materials currently used. We are also a DAkkS-accredited testing laboratory for all mechanical tests in the field of sandwich elements in the construction industry (in accordance with EN 14509) and a DAkkS-accredited certification centre in the field of sandwich elements.

Organisation type
University or higher education institution

Sector

Employees
10 up to 49

Turnover
Up to €2m

Funding

Franziska Braun Straße 3
64287 Darmstadt
Hesse
Germany
www.stahlbau.tu-darmstadt.de



TU Darmstadt

Specialist area of steel construction

About this organisation

Main areas covered	Sandwich elements in the building industry
Infrastructure	Research and testing laboratory
Certifications	Accredited test laboratory (EN 17025), Certification body according to EN 17065
Keywords	Sandwich elements, Construction, Test laboratory, Certification body, Research
Memberships	EPAQ, IFBS, Expert committee of the DIBt, ECCS, Standardisation committee EN 14509

Overview of lightweighting expertise

Machine translation

This organisation has been machine-translated based on data provided in German.

	Research	Development	Manufacturing & Supply
Offer			
Products			
Services & consulting Training, Consulting, Standardisation, Validation, Simulation	✓	✓	

TU Darmstadt

Specialist area of steel construction

Overview of lightweighting expertise

Machine translation

This organisation has been machine-translated based on data provided in German.

	Research	Development	Manufacturing & Supply
Field of technology			
Design & layout			
Functional integration			
Measuring and testing technology Component and part analysis, Destructive analysis			✓
Modelling and simulation Structural mechanics, Reliability validation	✓		
Plant construction & automation			
Recycling technologies			
Manufacturing process			
Additive manufacturing			
Coating (surface engineering)			
Fibre composite technology			
Forming			
Joining			
Material property alteration			
Primary forming			
Processing and separating			
Textile technology			

TU Darmstadt

Specialist area of steel construction

Overview of lightweighting expertise

Machine translation

This organisation has been machine-translated based on data provided in German.

	Research	Development	Manufacturing & Supply
Material			
Biogenic materials			
Cellular materials (foam materials)			
Composites Others (Sandwich elements with metal facings)	✓		
Fibres			
Functional materials			
Metals			
Plastics			
Structural ceramics			
(Technical) textiles			

Contacts

Machine translation

This organisation has been machine-translated based on data provided in German.

TU Darmstadt

Specialist area of steel construction

Contacts

Ms Dr.-Ing. Felicitas Rädel

Head of the test and research laboratory

info@stahlbau.tu-darmstadt.de