

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.

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



Organisation type

University or higher education institution

Sector



Employees

10 up to 49

Turnover

Up to €2m

Funding



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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

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

Overview of lightweighting expertise

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

Overview of lightweighting expertise

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

Contacts

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Contacts

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