TU Darmstadt Specialist area of steel construction

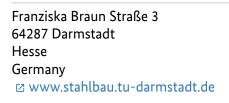
About this organisation

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, heatinsulating 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 DAkkSaccredited 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

n/a



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	N Development	Aanufacturing & Supply
Offer			
Products			
Services & consulting Training, Consulting, Standardisation, Validation, Simulation	\checkmark	\checkmark	

TU Darmstadt

Specialist area of steel construction

Machine translation				
his organisation has been machine-translated based on data provided in German.				
	Research	Development	Manufacturing	
Field of technology				
Design & layout				
Functional integration				
Measuring and testing technology Component and part analysis, Destructive analysis			\checkmark	
Modelling and simulation Structural mechanics, Reliability validation	\checkmark			
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				

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	l Development	Manufacturing & Supply		
Material					
Biogenic materials					
Cellular materials (foam materials)					
Composites Others (Sandwich elements with metal facings)	\checkmark				
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