



ΠΑΝΕΛΛΗΝΙΑ ΕΝΩΣΗ ΔΙΠΛΩΜΑΤΟΥΧΩΝ
ΜΗΧΑΝΙΚΩΝ ΕΡΓΟΛΗΠΤΩΝ ΔΗΜΟΣΙΩΝ ΕΡΓΩΝ
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PLASTICS TECHNOLOGY
CENTRE



**Silesian University
of Technology**



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Project website: tab4building.gzs.si

TAB4BUILDING

Training for architects and builders in the use of composites for the building sector



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Advantages of FRP in Construction

- **Corrosion resistance:** The corrosion resistant polymers in FRP hold up to salt and chemical exposure.
- **Cost-efficiency:** Longevity
- **Strength-to-weight ratio:** At just 10–20% the weight of reinforced concrete decking, FRP panels are lightweight yet strong enough to withstand high foot traffic, motor traffic, and high static loads.
- **Ease of installation:** Can be installed on site.
- **Safety:** Non-slip surface.
- **Design flexibility:** FRP can be engineered to meet almost any construction parameters.

FRP products in construction

- **Access and safety structures:** FRP's non-slip and durable surface
- **Pedestrian bridge decking:** FRP's non-slip texture also makes it well-suited for pedestrian bridge paneling
- **Vehicular bridge decking**
- **Rail platforms**
- **Tanks and piping:** Low weight and high corrosion resistance
- **Balconies**
- **Architectural details**
- **Reinforcement**

Contex

Construction is the main consumer of FRP and its use is increasing. Few professionals and companies have the necessary knowledge about FRP. In Europe, there is a shortage of specialized construction professionals with the appropriate knowledge of FRP. There is a need for the whole value chain to know the usability and workability of FRP. According to an inventory of the level of training in Europe for the construction sector, there is a lacking of trainings in the construction sector.

Aim of the project

The TAB4BUILDING project aims to develop a common training for both target groups that will enable them to increase their skills in the knowledge and application of FRP in the construction sector.

Target groups

- **Architects – civil engineers:** Use of FRP to design construction and repair work and need for general and technical knowledge to incorporate FRP into designs.
- **Construction Workers:** Need for general and application knowledge to use FRP materials in construction work.

Objectives

The main objective of TAB4BUILDING is to increase the competences of the target groups in terms of knowledge and application of FRP in the construction sector and to turn them into professionals who can use FRP in the whole value chain.



Professional profile Map. Identifying skills gaps in the use of composites and in particular of FRP.



Develop training tools and methods on FRP materials for the construction sector: Content for work-based sessions, face-to-face sessions and online sessions



Training content development: Theoretical materials and video(s) to gain a solid knowledge of FRP materials for the construction sector.