KARL MAYER

WE CARE ABOUT YOUR FUTURE

TECHNICAL TEXTILES
产业用纺织品

TEXTILE REINFORCED CONCRETE (TRC)

纺织增强混凝土(TRC)

New opportunities with textile reinforced concrete

纺织增强混凝土提供发展新机遇

Advantages

With high-performance textile reinforcements, the building industry has materials available today that are suitable for constructing thin, slim and lightweight concrete building elements, which conserve resources and simultaneously exhibit high permanence.

- Weight reductions and material saving
- Preservation of resources
- High level of design freedom
- Efficient renovation / reconstruction

您的优势

如今，建筑业可以利用高性能纺织增强材料获得轻薄、轻量化的混凝土建筑组件，它有助于节约资源，同时拥有较高的性能。

- 减轻重量，节约材料
- 保护资源
- 高水平的设计自由度
- 高效的翻修/改造

1 Bridge, Albstadt-Ebelingen / Germany
桥梁，Albstadt-Ebelingen /德国

2 Bridge, Naila / Germany
桥梁，奈拉/德国

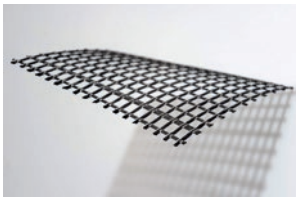
3 Reconstructed barrel vault, Zwickau / Germany
重建穹窿，茨维考/德国

4 Cladding panel TU Dresden, Schumannstrasse / Germany
德累斯顿工业大学的外墙板，Schumannstrasse/德国

5 'SWING' rocking chair, Paulsberg design agency / Germany
'SWING'摇椅，Paulsberg设计公司/德国

6 Carbon concrete pavilion 'TexLeS' of TU Chemnitz, Stadlerstrasse 14A / Germany
开姆尼茨工业大学的碳纤维混凝土凉亭'TexLeS'，Stadlerstrasse 14A/德国

Textile Reinforced Concrete (TRC) consisting of
纺织增强混凝土(TRC)包括



a) a textile reinforcement
- non-corrosive reinforcement
- light and thin
- excellent tensile strength
- made of high-performance materials (e. g. AR glass, carbon, basalt fibres, etc.)
- sturdy and resistant to displacement
- flexible formability
- easy to handle and cut

a) 纺织增强材料
- 不会生锈的增强材料
- 轻薄
- 杰出的拉伸强度
- 由高性能材料制成（例如耐碱玻璃纤维，碳纤维，玄武岩纤维等）
- 牢固且不会发生位移
- 灵活成形
- 便于处理和切割

b) a fine-grain concrete
- very dense matrix
- high tensile and compressive strengths
- excellent load-carrying capacity
- good processability
- strong internal cohesion for sprayable mixtures
- good adhesion to the reinforcement structure and concrete subbase (e. g. old concrete)

b) 细颗粒混凝土
- 非常密实的材料
- 优良的拉伸和压缩强度
- 强大的负载能力
- 良好的加工性能
- 强劲的内聚力，可应用喷涂型材料
- 与增强结构和混凝土基层（例如原先的混凝土）产生牢固的粘合力

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