

#### Who we are

büro für leichtbau (bfl) is an engineering practise specialized in design, analysis and construction of architectural lightweight structures.

bfl was established in 1995 by engineer jörg tritthardt and architect dr. hartmut ayrle as a spin-off from the wrapped reichstag project by christo and jeanne-claude.

based in south germany at the shore of lake constance the team now can look back on over 27 years of experience and more than 515 executed projects.

after resignation of dr. ayrle in 2003 the company today is a partnership of engineers jörg tritthardt and dirk richter.



## What we do

- bfl offers design and engineering knowledge for tensi le structures to clients all over the world including:
- new designs for tensile, mobile and retractable struc-
- development of existing designs in collaboration with architects and general contractors
- · project consultancy and planning
- cost estimation for special structures
- numerical formfinding of membrane-, cable- and shellstructures.
- structural analysis complying to Eurocode or local codes
- cutting patterns for double curved textile membrane
   surfaces
- quality control of manufacturing processes
- method statements and site inspection







# Mrists and Jeanne-Clande, WRAPPED REICHSTAG, BERLIN, 1971-95

Geschäftsführer/CEO.

Roland Specker

Wolfgang Volz

Christo and Jeanne-Claude

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Exklusiv authorisierte Projektphotographen Wolfgang und Sylvia Volz Photoanfragen: Fax: 040-420 78 76

To whom it may concern

Verhüllter Reichstag GmbH

Ebertstr. 27, 10117 Berlin

Fax. 030-201 95-174 his 31. Juli 1995

Bauleitung Architekturburg Mann, Berlin

Ingenieure und Architekten IPL Ingenieurplanung Leichtbau GmbH, Radolfzell

Technische Textilie Schilgen GmbH & Co., Emsdetten

Metallisierung Rowo Coating GmbH, Herbolzheim

Monitororganisation Siegward Hausmann

Nähereien Spreewald Planen GmbH, Vetschau Zeitaplen GmbH, Taucha Canobbio Sp. A., Castelnuovn

Kunsthändler in Deutschland/art dealer Carl Flach, Berlin

Projektassistant Simon Chaput

Archivar-Kurator Josy Kraft

Technisches Consulting Vince Davenport John Thomson Mitko Zagoroff

Montage RVM - Reichstagsverhüllungsmontage GmbH, Berlin

Geo Gleistein & Sohn GmbH, Bremnn

Montagekissen HeBa Kunststoffe GmbH, Emsdetten

Stahlbau Zwickau GmbH, Zwickau

Dachplattformen Gerüstbau Tisch GmbH Berlin

Stahlgewichte EKO Stahl GmbH, Eisenhüttenstadt Letter of Recommendation

Herewith we do confirm, that Hartmut Ayrle, Architect, and Jörg Tritthardt, Civil Engineer, have as responsible project architect and engineer designed and worked out the technical realisation of the Wrapped Reichstag in Berlin, backed up by their former office IPL GmbH.

Hartmut Ayrle was leader of the engineering team and coordinated the design and workshop detailing process. He conducted the technical investigations necessary to obtain the building permit from the Berlin authorities. He was able to understand our aesthetical visions and convey them into construction technology.

Jörg Tritthardt took on the responsibility for the engineering of the fabric panels. His high level of precision and structural understanding for fabric made possible an installation of 100.000 m2 of fabric.

Both, Hartmut and Jörg, worked in direct relation with us, from May 1994 until the installation and removal in June/July 1995. They both dedicated all their workforce and emotional engagement to the project.

We can encourage everyone who is looking for design and engineering of demanding projects to use the services of Hartmut Ayrle and Jörg Tritthardt as architects and engineers. We are fully satisfied by their work for the Wrapped Reichstag in Berlin and hope to work with them some day in the future.

Berlin, 5.7.1995

Christo and Jeanne-Claude

Unito at Jesus Conde







## L'Arc de Triomphe, WRAPPED

To whom it may concern

### Letter of Recommendation

Herewith I confirm, that Jörg Tritthardt, Civil Engineer, has as responsible project engineer designed and worked out the technical realisation of "L'Arc de Triomphe, Wrapped" with his "büro für leichtbau, design+engineering".

Jörg Tritthardt took the responsibility for the engineering of the fabric panels, the tensioning system of the fabric panels, the steel block fixation, the red ropes, the installation procedure of the fabric and ropes. His high level of precision and structural understanding for fabric made possible an installation of 25.000 m² of fabric and 3.000 m particular pretensioned red ropes.

Jörg worked in direct relation with me, from July 2019 until the installation and removal October 2021. He dedicated all his workforce and emotional engagement to the project. Based on Christo and Jeanne-Claude and my satisfaction by his work for the "Wrapped Reichstag" in Berlin, Christo and I worked with him again for "L'Arc de Triomphe, Wrapped". I encourage everyone who is looking for design and engineering of demanding projects to use the service of Jörg Tritthardt with his "büro für leichtbau, design+engineering" as engineers. I hope to work with him some day in the future.

Paris, 01. 12.2021

Vladimir Yavachev

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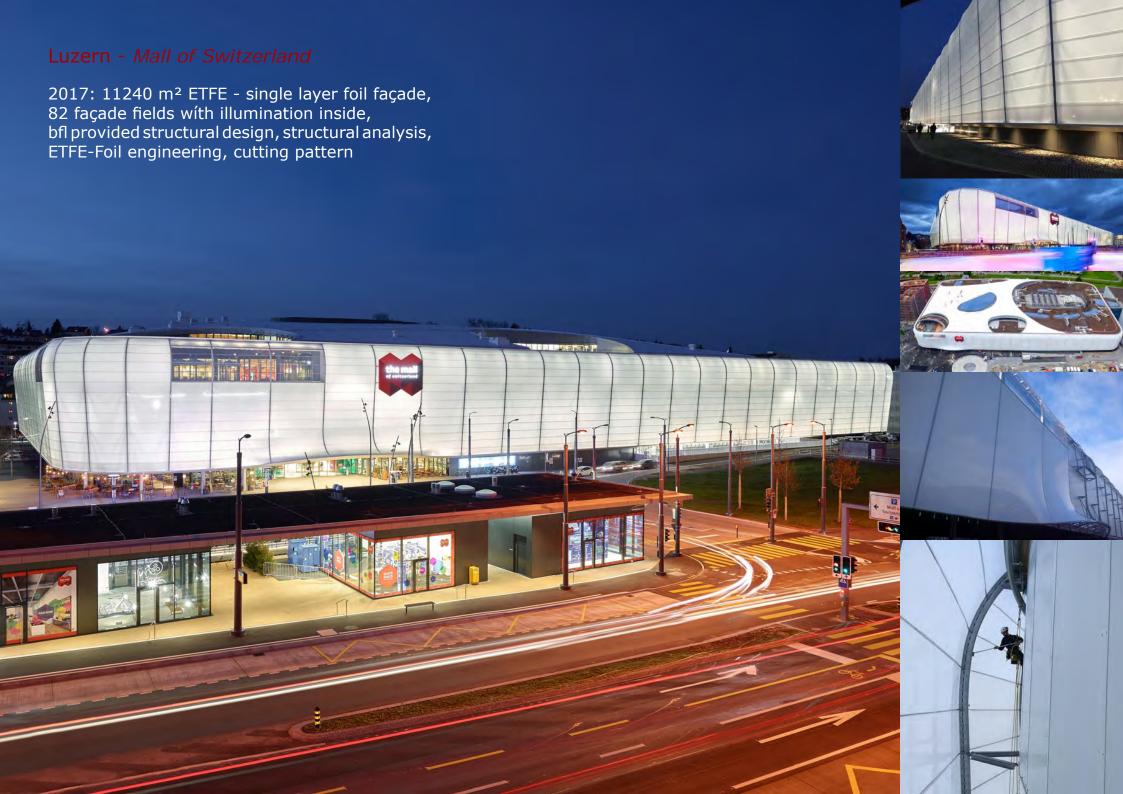




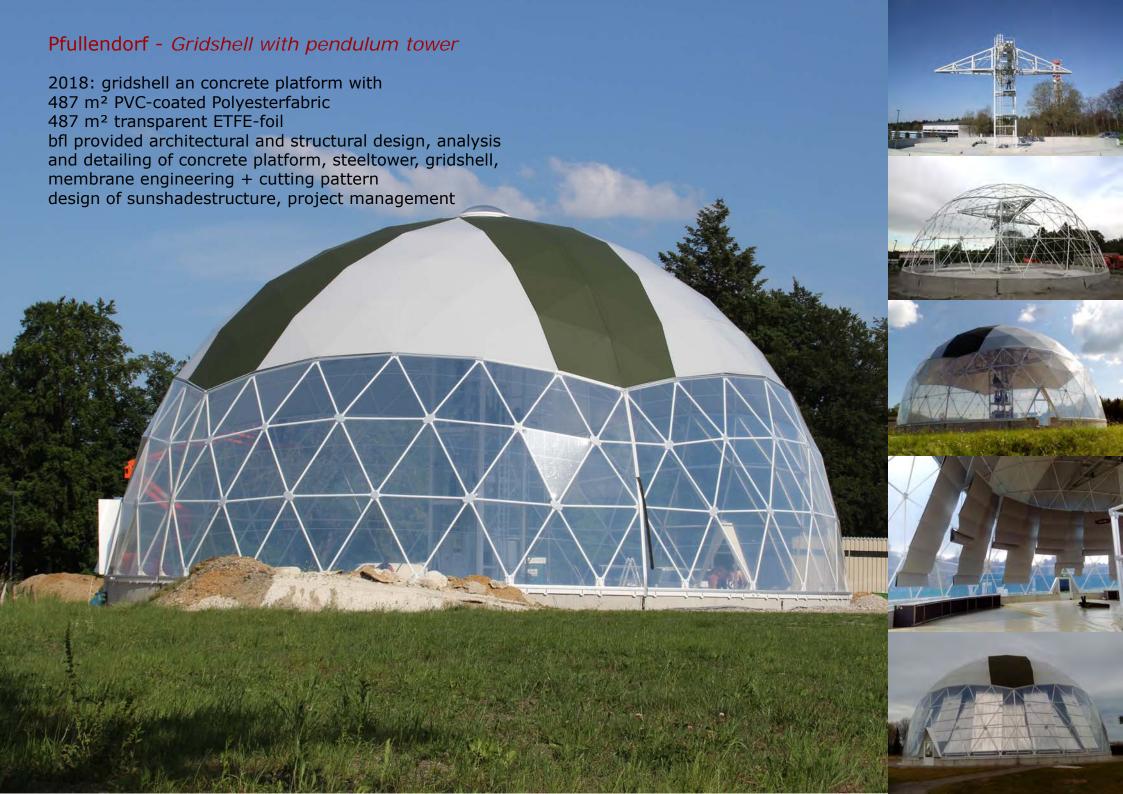










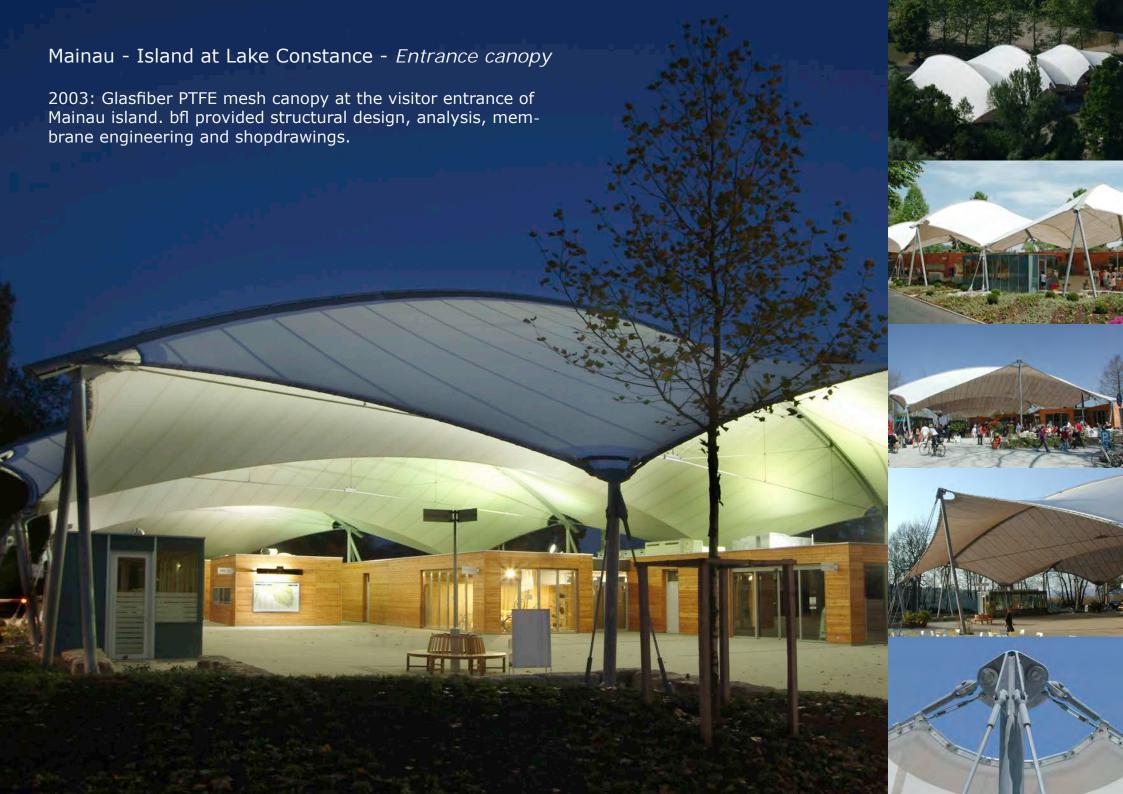








































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