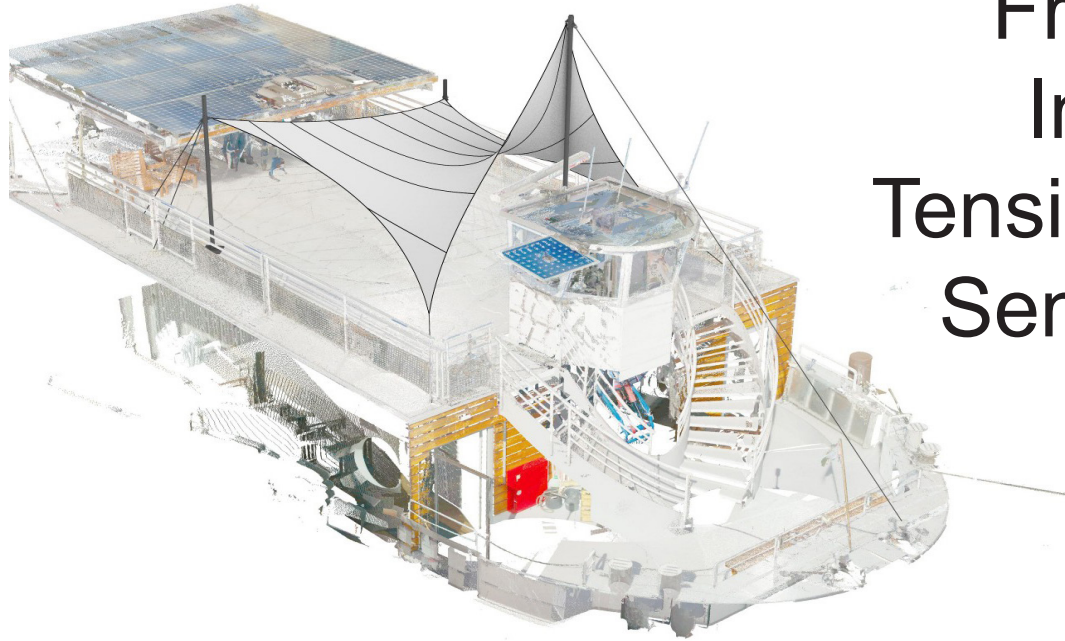


Practical Project at TR-24

From 3D Scan to
Installation of a
Tensile Structure on the
Seminar Ship Berlin

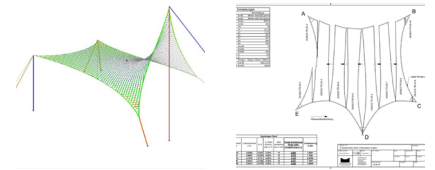
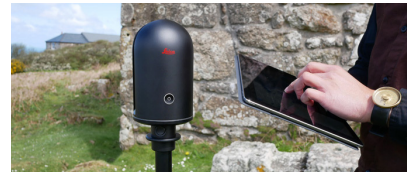


1. Table of contents

1. Introduction to Stoffdach GmbH (Selected projects)



2. Introduction to the work steps of the practical project



1. Introduction to Stoffdach GmbH



Stoffdach GmbH is a leading company from Berlin, specializing in the design, fabrication, and installation of innovative tensile structures. With a wealth of experience and expertise in the field, Stoffdach GmbH has earned a reputation for delivering high-quality, sustainable solutions for a diverse range of projects.

1. Introduction to Stoffdach GmbH (Selected projects)



Planning, manufacturing, and installation of the roof membrane



Planning, manufacturing, and installation of the entire structure



Concept, design, planning, manufacturing, and installation of the entire structure



Concept, design, planning, manufacturing, and installation of the entire structure

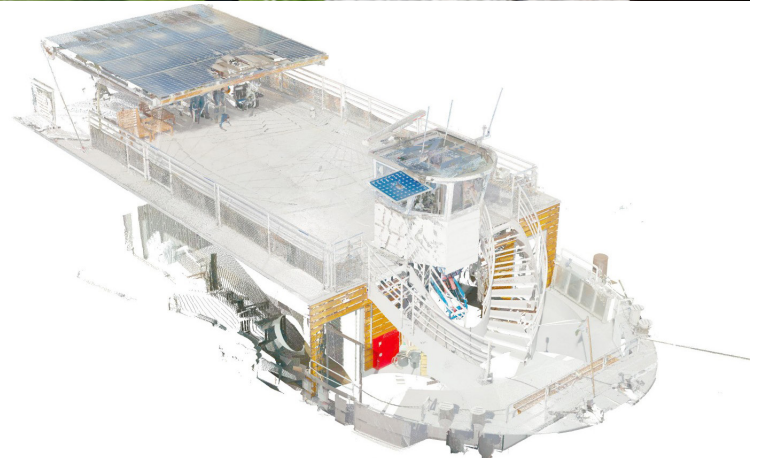
2. Introduction to the work steps of the practical project

2.1.

Capturing environment via 3D scan using iPad or
Leica BLK-360
(generating a point cloud)

-Site Managers: Walter Habrich,
Janek Jeschke (Stoffdach GmbH)

-Location: Upper Deck



2. Introduction to the work steps of the practical project

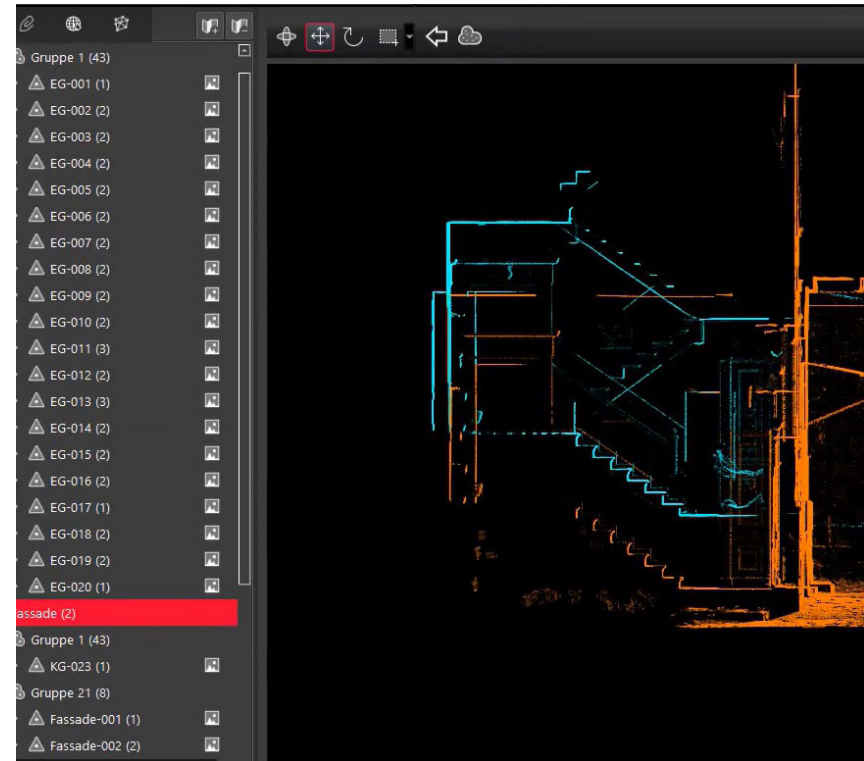
2.2

Static laser scanning in a nutshell - Remarks on data acquisition, registration and other pitfalls

- Registering the raw data (merging the individual point clouds into one large point cloud)
- Cutting and alignment of the point cloud

-Station manager: Daniel Wujanz
(Technet GmbH Berlin)

-Location: Lower deck room A



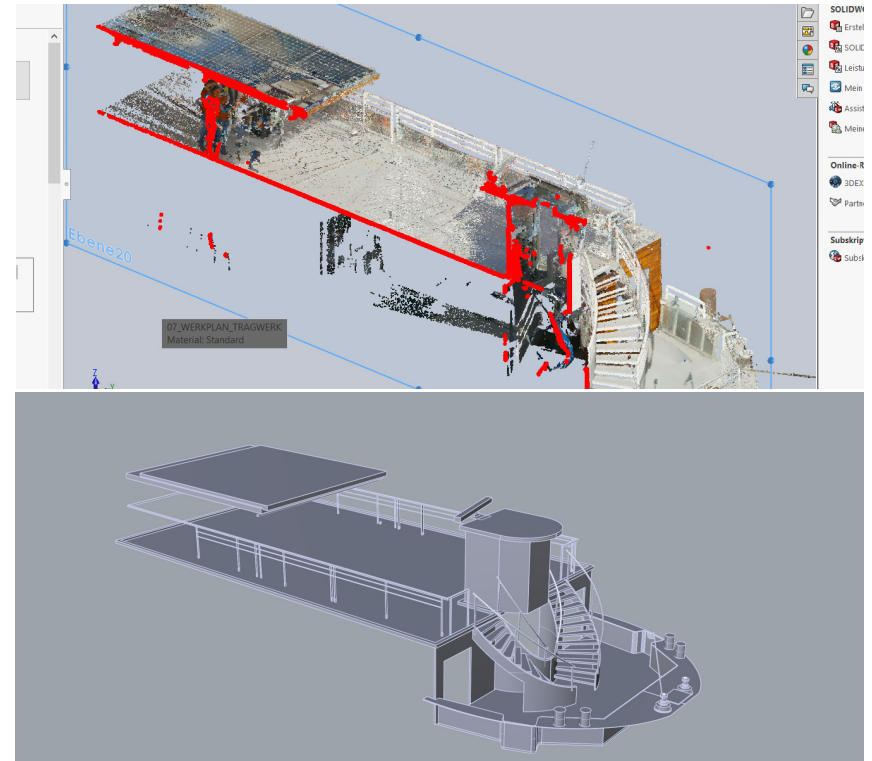
2. Introduction to the work steps of the practical project

2.3

- Conversion of the point cloud into solids
(Rhino-3D alternative Solidworks with the plugin
Extract-3D)

-Station manager: Jonas Klaaßen (Stoffdach
GmbH)

-Location: Upper deck (under the roof)



2. Introduction to the work steps of the practical project

2.5

-Fabrication of the membrane and the tensioning straps

Station manager: Kay Matthies
(Karsten Daedler e.K.) Julia Rau (Stoffdach GmbH)

-Location: Upper deck (under the roof)



2. Introduction to the work steps of the practical project

2.6

Assembly and tensioning of the tensile structure

Site Supervisors: Walter Habrich,
David Wullbrandt, Janek Jeschke
(Stoffdach GmbH)

Location: Upper deck (under the roof)



Thank you very much for listening and have fun doing it

your

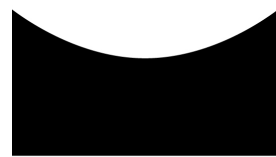
-Karsten Daedler e.K.

-Technet GmbH

-Stoffdach GmbH



KONFEKTION VON
PLANENSTOFFEN UND FOLIEN.



STOFFDACH
CONSTRUCTION