



Wir liefern pünktlich –  
Sie verdienen an der Zeit.

Engineering office for planning and design

## **Technical profile and service portfolio**

### **ABOUT US**

ASB Fiber GmbH provides comprehensive solutions in the field of planning, design and digital documentation of fibre optic networks (FTTX). Over the past 8 years, our team has successfully designed more than 500,000 premises (Home Passed) across Europe, which makes us one of the most experienced and reliable partners in the industry.

### **1. PLANNING AND DESIGN (ENGINEERING & DESIGN)**

We specialise in preparing precise technical documentation that ensures the efficiency and long-term reliability of the network infrastructure:

- Network topologies FTTH / FTTB / FTTS / GPON: Development of network topologies tailored to all project types, with a particular focus on subsidised projects (Förderprojekte) that require specific standards.
- High Level Design (HLD) / Route planning: Strategic planning of the network architecture and optimisation of routes in order to reduce costs and increase coverage.
- Low Level Design (LLD) / Detail design: Detailed planning down to end-customer level, including accurate design of the duct infrastructure (duct design) and fibre cabling.
- IMS & Cocon expertise: Advanced data and document management within IMS (Infra Management Suite) and the Cocon environment, ensuring full data integrity.
- Neubaugebiet Planning (NBG): Planning of new residential and commercial areas, including the extension of existing locations, enabling precise planning of customer connections.

### **2. PERMITS AND TECHNICAL DOCUMENTATION (PERMITS)**

Our team ensures that all legal and technical preconditions for construction are fulfilled through the thorough preparation of documentation:

- Permit planning (Genehmigungsplanung): Preparation of complete planning documents required to obtain approvals from public authorities, municipalities and private landowners.
- Crossing design (Querungsplanung): Specialised engineering for technically demanding crossings of routes, such as waterways (Wasser), railway lines (Bahnquerung) and classified roads (Strassen).
- Route offer & polygon analysis: Preparation of precise route offers (Trassenangebot) and bills of materials (BOM) based on defined polygons and project-specific terrain conditions.



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### **3. DIGITAL AS-BUILT DOCUMENTATION OF THE INSTALLED NETWORK (AS-BUILT)**

After completion of construction works, we ensure the accurate transfer of the actual field situation into digital systems:

- GIS-based documentation: Precise survey of the as-built situation and input of geospatial data into leading systems such as QGIS and AutoCAD Civil 3D.
- Digital project folder: Systematic preparation of the complete documentation required for digital project handover and invoicing (claiming process).

### **4. SOFTWARE SOLUTIONS AND FIELD WORK**

- Software: Our engineers are experts in tools such as GeoStruct IMS, AutoCAD Professional, AutoCAD Civil 3D, QGIS and Telecad GIS.
- Site surveys (Hausbegehungen): Professional field teams for on-site inspections, planning of customer connections and preparation of digital survey reports (Begehungsprotokoll).

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