



TRACEABILITY IN EVERY CONCRETE FOUNDATION

BACKGROUND AND CHALLENGE

Gunnar Prefab is an established supplier of prefabricated building components with over 20 years of experience. The company focuses on quality, sustainability, and innovation to meet current and future demands in the construction industry. Areff, part of the Seriline Group, is pleased to present, in collaboration with Gunnar Prefab, a pioneering IoT solution that takes product traceability to an entirely new level. New requirements from the Swedish Transport Administration (Trafikverket) stipulate that product information such as manufacturing date, certifications, and inspection history must be available throughout the entire product life cycle – often up to 25 years. In the harsh conditions found on road and construction sites, there was a need for a robust solution that could also be updated over time.

SOLUTION AND IMPLEMENTATION

In collaboration with Areff Systems, an IoT solution based on NFC technology was developed. By embedding a communication transponder into the product, information is made directly accessible via mobile phone. The first product to use the solution is GPLINK 1.5 (a flexible safety barrier for roads), where the user can simply scan the product to access critical information in real time.

"We had to rethink our approach. The information needed to be accessible and, preferably, possible to update throughout the product's entire lifecycle. In collaboration with Areff, we developed an NFC-based solution that allows us to embed the information in our products and thus protect it."

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Säger Daniel Kivistö, Affärsutvecklare Gunnar Prefab

RESULTS

- Fast access: Simple mobile scanning provides instant access to product data.
- High traceability: The information follows the product throughout its entire lifecycle.
- More efficient inspections: Enables safer and faster decision-making in the field.

“ We are very proud to have developed, together with Gunnar Prefab, a solution that simplifies handling and compliance with the legal requirements for product information on concrete products. This means that information must always be available on the product throughout its lifetime. This applies to many products that are used for long periods and in demanding environments. We have created a system where all product information can easily be read with any mobile phone, resulting in simplified access to up-to-date product data and an efficient way to save time.”

– Pierre Parrman
CTO Seriline Group

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