AARSLEFF | BUILDOTS

OVERCOMING CONSTRUCTION HURDLES:

Aarsleff's journey to avoid budget overruns and schedule delays with Buildots

Denmark
LOCATION

Office Building
COMMERCIAL

8,000 SQM
(86,000 SQFT)

9
FLOORS

Aarsleff's adoption of Buildots marks a transformative advancement in tackling complex building projects. Through the strategic use of objective progress data, hidden costs and on-site inefficiencies are uncovered, paving the way for improved project performance and delay risk mitigation as well as prompt discrepancy detection. Diving into Aarsleff's success story offers a window into the future of construction, where excellence is defined by performance-driven decisions.

Project Spotlight

Per Aarsleff A/S, a prominent EU civil engineering firm and Denmark's largest contractor with an annual turnover of £2.3 billion, strategically broadened its expertise by venturing from traditional civil/groundworks to more complex urban building projects. In their pursuit of enhanced productivity and seeking to avoid daily hurdles on site, Aarsleff adopted Buildots' AI powered progress tacking a 8,000 sqm, 9-floor head office construction in Aarhus, Denmark.

Objectives

Aarsleff implemented Buildots to achieve three key objectives and structural changes in their on-site work processes:

→ **Improving** workflow efficiency by proactively addressing incomplete tasks, thus preventing potential disruptions and keeping the project on track.

→ **Elevating** stakeholder collaboration and enhancing subcontractor accountability and transparency.

→ **Resolving** claims, which can escalate into costly disputes and financial losses.

"Claims are a big concern for everyone trying to lift off a construction project and, unfortunately, they are often not well documented. But using Buildots, we have real numbers and historical data at hand to oppose or validate those claims. Potentially, this helps to save money and time."

Martin Weier Christiansen | Project Director

"Whenever we needed to discuss progress with our clients, having a tool like Buildots at our disposal came in extremely handy. Whatever comes up - from intricate questions to model changes mid-project - Buildots supports the answers and the means.

Mette Mikkelsen | VDC Team Manager

Enter Buildots

THE SOLUTION

The decision to implement Buildots was made after a thorough evaluation process, where the tool's advanced progress tracking and data processing capabilities proved instrumental in addressing Aarsleff's needs:

01 Streamlined Trade Management

The integration of progress data into trade handover ensures that tasks are verified and completed before sign off, eliminating the need for costly return visits.

02 Informed Work Planning

Integrating Buildots in work planning meetings allowed for informed progress assessment and more effective work plans, enhancing overall collaboration and efficiency in project coordination.

03 Accurate Dispute Resolution

Buildots provided basis for that only valid claims for installed and delivered work would pass, settling disputes and promoting fully transparent subcontractor management.

04 BIM-To-Reality Discrepancy Detection

Identifying discrepancies from the BIM model to as-built structures ensure alignment between planned and actual construction.

"By pinpointing model discrepancies in real-time, we've really leveled up our proactive approach – it's not just about finding errors; it's about adjusting and optimizing before they impact the project's trajectory".

Mette Mikkelsen | VDC Manager

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Buildots identified an electrician working on a different floor than planned, risking delays and design discrepancies. The timely detection allowed for a prompt response, ensuring the project moves in the right sequence and aligned with the designated design specifications.

The Outcomes

Adopting Buildots enabled Aarsleff to enhance project collaboration and minimize delays. Buildots' early detection capabilities identified scheduling conflicts that risked delaying the project by over six weeks. Acting on these insights prevented potential daily fines amounting to 0.1% of the contract value. This strategic intervention ensured continuous project momentum and showcased Aarsleff's commitment to maintaining efficiency and quality standards. The case highlights the critical role of performance-driven management in navigating the complexities of construction projects, ensuring they stay on track and within budget.