



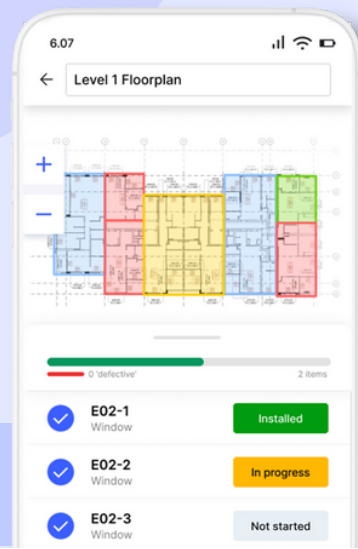
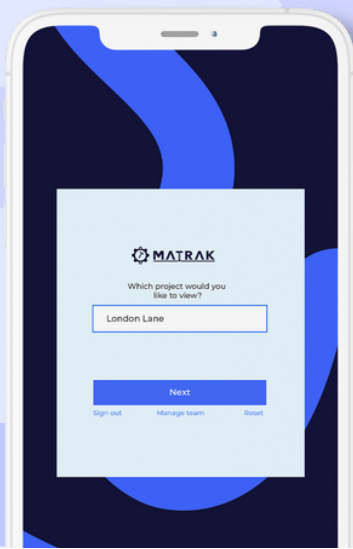
The Essential Guide to Material Tracking

Navigating Efficiency in Construction



Contents

- 1 **Introduction to material tracking in construction**
- 2-4 **What are the benefits of material tracking platforms?**
- 5 **Who does material tracking benefit?**
- 6-7 **Materials tracking for Head Contractors**
- 8-11 **Materials tracking for Manufacturers**
- 12-13 **Materials tracking for Logistics**
- 14-16 **Materials tracking for Suppliers**
- 17-19 **Materials tracking for Installers**
- 20 **Matrak — the best material tracking solution for construction teams**



Introduction to Material Tracking in Construction

Materials are the foundation of every construction project. They have a touchpoint across the entire process, from conceptual planning straight through to the actual build and completion. In other words? Without the right materials you can't build anything.

That's why tracking your materials is so important. Extensive planning is involved in managing hundreds, sometimes thousands, of line items across the supply chain — it's quite easy to get confused and lose track of its whereabouts. Construction management software that specialises in material tracking exists so you can control the supply and delivery of every material to ensure a successful build.

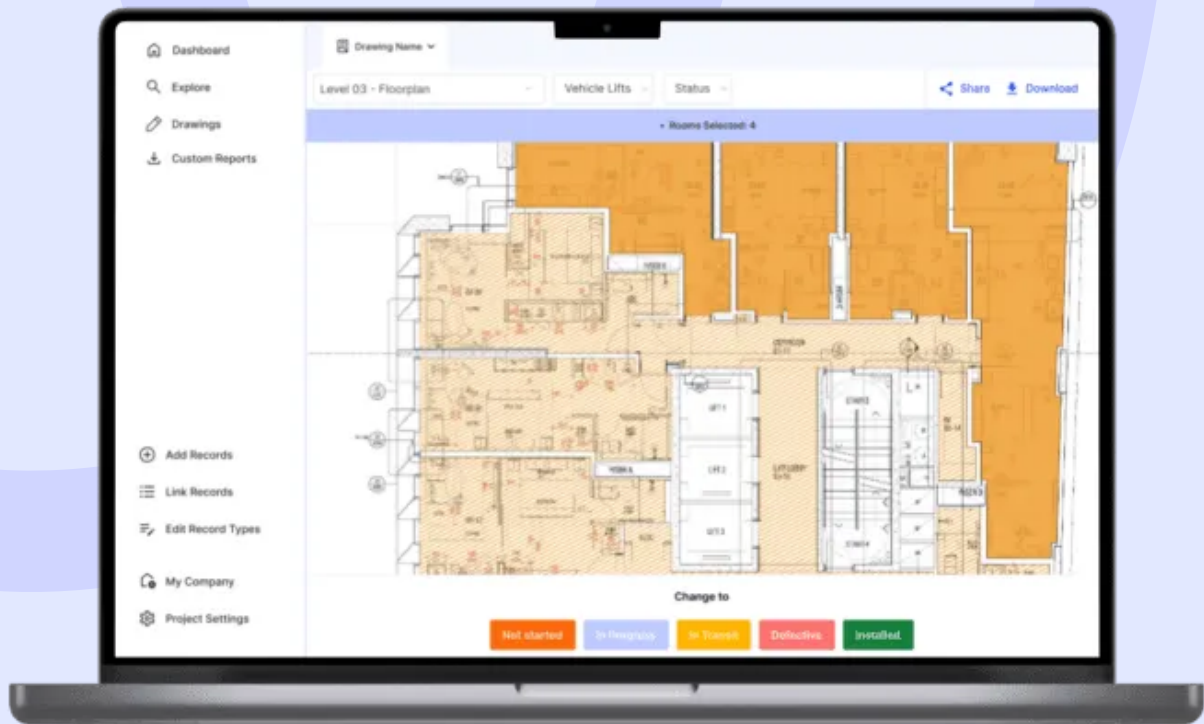
What is material tracking in construction?

Within the context of construction, 'material tracking' is more than just knowing the location of a particular material.

In addition to its whereabouts, construction managers can also coordinate the progress of materials at every stage in the supply chain — moving it from one area to another, so that the next group of builders can commence their work. This process continues from beginning, middle, to end, until the building is complete.

Material tracking creates supply chain visibility for everyone involved in a construction project, making it one of the best ways to ensure builds are completed on-time and on-budget. That said, external delays or mishaps can happen anytime during a build. Using materials tracking software can help you anticipate them well in advance, giving you ample lead time to create a plan B.

What are the benefits of supply chain tracking?



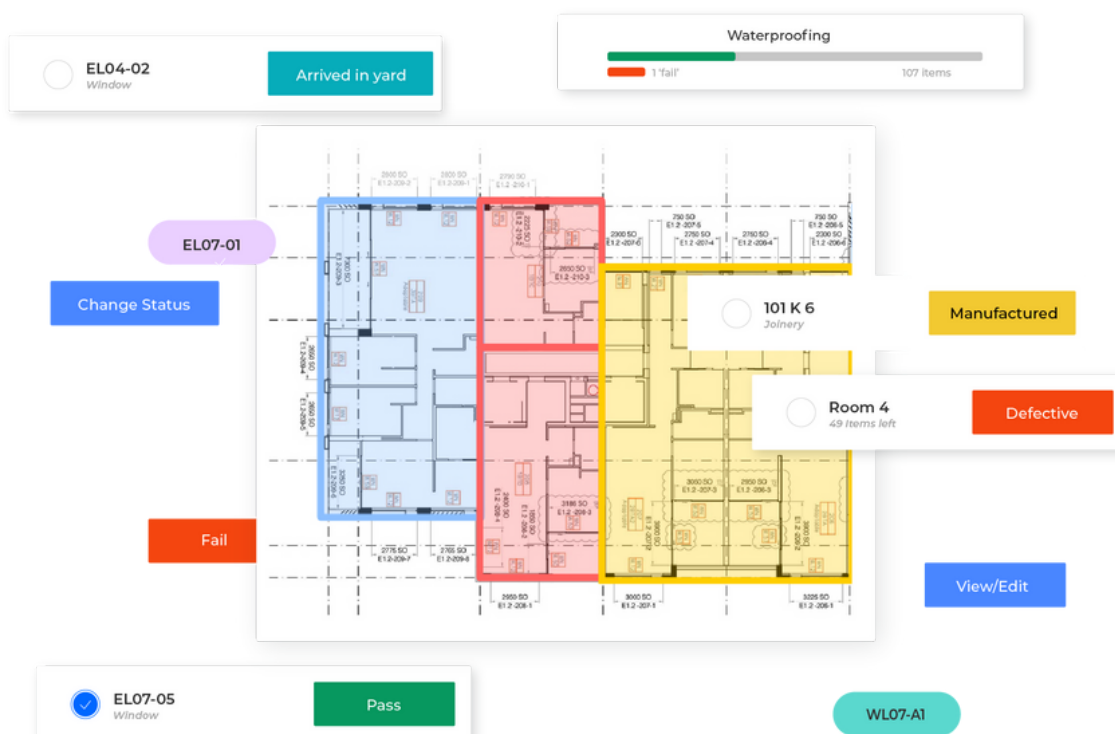
What are the benefits of material tracking platforms?

There are many great tools out there that help you build better, together. But why should you care about a construction management software that specialises in materials tracking? Here are a few reasons why materials tracking software should be an essential part of your toolkit when building.

Create supply chain transparency:

Material tracking software enables end-to-end supply chain visibility for construction teams. Through visibility comes clarity and clear communication, allowing every stakeholder to be on the same page.

With supply chain transparency, there are no surprises like unexpected delays or materials that don't meet quality standards. You'll have all of the essential information right in front of you, allowing you to plan ahead, communicate to your team clearly and continue an efficient building process. Simply put, supply chain transparency makes communicating to other stakeholders easier and more efficient, giving you time back for more important tasks like actually building!



Reduce risks in a construction project:

Having so many stakeholders and materials in one construction project introduces complexity and increased risk. From materials getting lost in the supply chain, materials arriving on-site but are defective and therefore can't be used, to accidental double-ups and more — the list really does go on.

A good material tracking software should not only show the material's location, but also have detailed other important information like its current quality (and whether it meets standards) and proposed arrival time. Realistically, you can't completely eliminate risks in a construction project. Life happens, and sometimes, unexpected things just happen.

However, you can significantly reduce the likelihood of risks happening by anticipating it in advance, and planning accordingly. This enables you to continue working to schedule for a successful build that's completed on-time and on-budget, keeping your clients happy.

Avoid the blame game:

In every construction project, there are several companies working together to complete the build. As such, collaboration is key.

A lack of collaboration and communication between stakeholders will only lead to disarray, conflict or delays. And because materials are essential across every stage of the supply chain, if one item gets lost or is delayed, typically the game of 'whodunit' occurs. Construction managers will need to waste time retracing steps, interviewing team members and essentially playing detective to find out who is at fault.

Using a materials tracking software helps to prevent this situation from occurring in the first place. As mentioned previously, tracking your materials and its journey across the supply chain enables end-to-end visibility and transparency, mitigating the need to retrace steps. Instead of creating conflict, materials tracking software optimises collaboration and teamwork.

Meanwhile, a materials tracking software also provides proof of work, protecting you and your team from the blame game. If head contractors or clients are trying to discover who is at fault, you can stay rest assured that your reputation remains positively intact.

Who does material tracking benefit?

Tracking your materials in a construction project benefits everyone in the supply chain. That said, it can benefit certain stakeholders in different ways.



Materials tracking for Head Contractors

A material tracking software helps head contractors track site progress, access detailed data, and streamline supply chain management. Further eliminating paperwork and proactively addressing delays.

Reduce your overhead costs



HOW IT WORKS IN MATRAK

Matrak provides visibility into all aspects of your supply chain and site progress, saving teams hours in their workweek and helping them complete work in a shorter time frame. Matrak replaces the need for time spent on many common and manual tasks including:

- ✔ Site walks
- ✔ Subcontractor meetings
- ✔ Reporting to clients
- ✔ Quality reviews
- ✔ Reviewing progress claims
- ✔ Chasing updates from suppliers
- ✔ Tracking down missing items
- ✔ Managing disputes
- ✔ Logging Greenstar & certification info



WHY THIS MATTERS

Live supply chain and site progress data (in your pocket) automate common business activities that helps get time back on your side and cut overhead costs. It's one of the easiest ways to reduce losses and increase business profitability.

Stay competitive and build your reputation as a global industry leader



HOW IT WORKS IN MATRAK

Matrak's ability to produce run rate reports help predict whether your projects are on track to meeting the program target dates based on current manufacturing and installation rates. Understanding where projects are at risk of falling behind schedule allows you to proactively work with subbies to manage staffing to ensure projects stay on time, every time.



WHY THIS MATTERS

Being able to align global teams and create an environment of shared responsibility helps manage risk by enabling teams to make better and smarter decisions. Proactively understanding and managing where projects are at risk of falling behind schedule helps reduce your time to market – giving you competitive advantage and protects your reputation as leaders in the industry.

Materials tracking for Head Contractors

Gain confidence and trust in your subcontractors



HOW IT WORKS IN MATRAK

Matrak provides live visibility of all material movement and interactions through its life cycle and allows you to run full quality performance checks in the platform – ensuring proper quality checks, packing and warehousing standards are met. In turn, get confidence and peace of mind in the subcontractors you're working with.



WHY THIS MATTERS

Eliminate the struggle to find the right suppliers and partners for your construction projects. By using a tool that allows your subcontractors to provide live visibility of materials and their progress in the supply chain, you'll rest assured that you're working with companies committed to providing transparency to their clients.

Reduce risk of project delays



HOW IT WORKS IN MATRAK

Matrak provides visibility on materials and monitors key movements during every phase to keep construction programs on schedule. Providing early and complete visibility of your supply chain helps subcontractors better coordinate their work and reduces the risk of projects falling behind schedule. This enables companies to predict when activities will be completed based on current throughput rates, which helps planning in advance to avoid liquidated damages.



WHY THIS MATTERS

Lack of visibility into your project's supply chain puts companies at risk of liquidated damages. Having a centralised flow of communication and visibility on subcontractor activity gives an accurate representation of your project's production and installation rates – allowing you to be aware of site progress and proactive in case any part of the build is at risk of falling behind schedule.

Materials tracking for Manufacturers

A materials tracking software helps manufacturers prove delivery of high quality materials, automate packing lists, and receive early notifications of potential rework due to damage, ensuring high quality and customer satisfaction.

Improve the productivity of your fabrication and manufacturing line



HOW IT WORKS IN MATRAK

Troubleshoot your supply chains and help perfect your Bill of Materials with a solution that integrates seamlessly with your ERP and other important systems. Turn large amounts of raw information into actionable insights and improve every day operations by making informed decisions. Matrak helps boost productivity by:

- ✔ Provides operational analytics, so you can calculate the speed and quality on different production lines, and help optimise how your team works
- ✔ Makes fabrication drawings available from any smartphone or tablet for everyone involved in your project, allowing them to easily check their work and requirements, without carrying around huge piles of paper
- ✔ QR code stickers replace existing barcodes, making it quick to track product without creating extra work



WHY THIS MATTERS

Streamlined and efficient operations are key to company growth, increasing revenue and maintaining customer satisfaction.

Keeping up with the latest manufacturing technology trends is one of the best ways to improve productivity in the industry. Since digital technology is constantly growing and changing, it's necessary to stay alert in order to remain competitive.

Materials tracking for Manufacturers

Share information with better communication to save resources



HOW IT WORKS IN MATRAK

Protect your work with built-in, real-time digital audit trails and attach photos to manufactured materials at any stage and location of the construction lifecycle. Attaching photos, along with Matrak's built-in auditing functionality, provides your materials with quality insurance and proof of work that protects your bottom line. Because the software is cloud-based, all information you enter is accessible to your clients, and even in their preferred language.

Meaning simply inputting information into Matrak instantly communicates material updates and information to clients.



WHY THIS MATTERS

It's not uncommon to have difficulty tracking materials and knowing they've made it to site and safely. If clients can't find specific materials, it involves to-and-fro contact (emails, phone calls, text messages and more) just to locate a single product.

Providing real-time evidence to your clients of your material's shipping locations and that they are of top quality prevents you from losing resources, or even taking the blame for materials you've successfully produced.



Materials tracking for Manufacturers

Build your reputation with local and overseas builders



HOW IT WORKS IN MATRAK

Matrak builds and protects your reputation by:

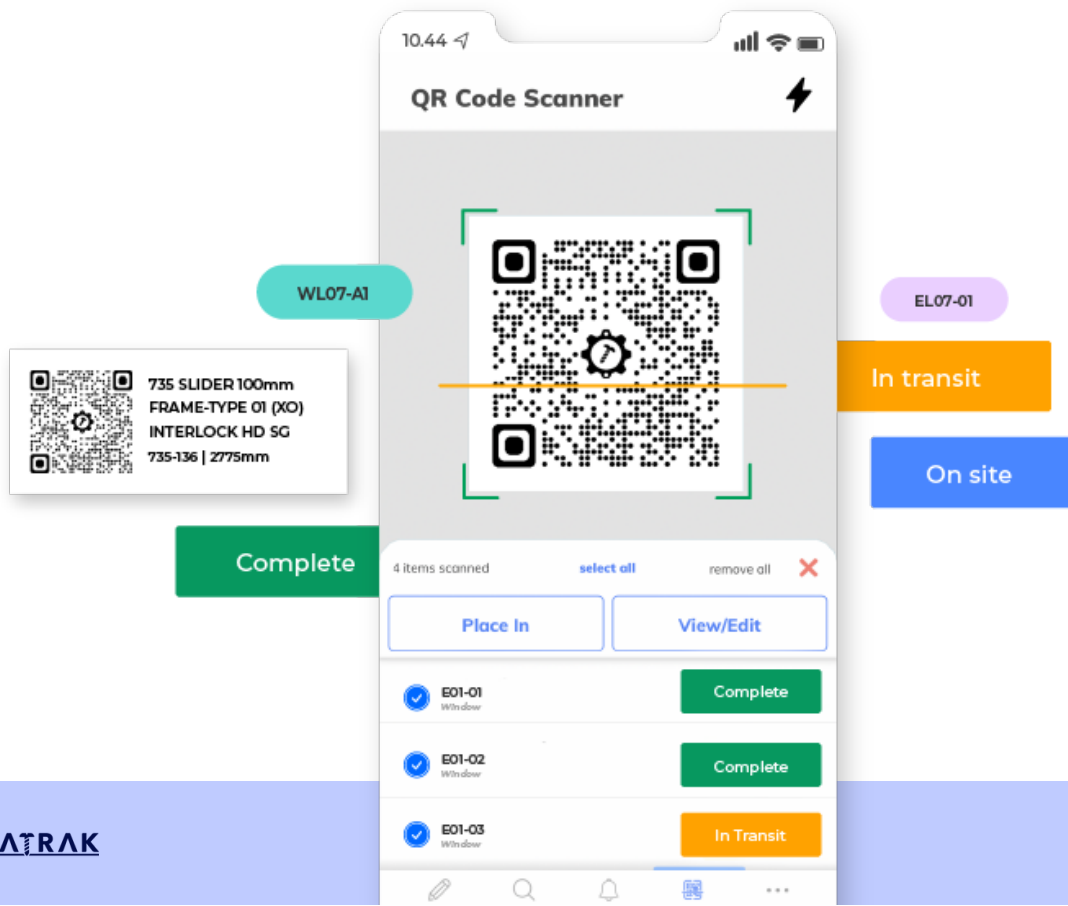
- ✓ Producing run rate reports that prove you provide accurate packing list information in a timely manner to your builders.
- ✓ Using QR code stickers to help your client's teams (installers) easily know what products are in which stillages and crates. Meanwhile, interactive drawings help them identify where those materials are supposed to go onsite.
- ✓ Faster reorders for defects with instant notifications. If your client marks a material as defective, turning on your in-app notifications allows you to note the issue, remake and resend materials as soon as possible. Keeping you and your clients on schedule to help get the job done faster.



WHY THIS MATTERS

Different time zones and language fluency are often barriers in a global supply chain. Cloud-based software is a solution to this issue because not only can it be customised to the appropriate language, but it empowers users to see material status and location in real-time without the to-and-fro messaging.

Working in a digital way builds trust and encourages cohesive and positive working stakeholder relationships. Protecting your reputation in the industry.



Materials tracking for Manufacturers

Automatically create custom reports that simplify QC procedures



HOW IT WORKS IN MATRAK

How this works in Matrak: Matrak's API integration gives the ability to set up internal ERP integrations, so when you update your internal systems or generate packing lists, it automatically syncs in Matrak and notifies your clients. Here's some other great benefits:

- ✔ Instantly provides real time product information to your client, in their native language, without having to do any extra time-consuming work.
- ✔ Easily generate and update quality reports in seconds by scanning product QR codes. Quality reports also include photos, a timestamp and digital signature to help your team protect themselves.
- ✔ Reduce miscommunication, and simplifies data management while making information searchable – even years later.



WHY THIS MATTERS

Often, manual reporting is filled with errors and holds static data that can't be shared in real-time. Quality checks and reports often need to be saved for auditing purposes. They also need to be easily obtainable, should your company need to prove it followed appropriate guidelines and quality check processes.

Because traditional quality reporting is paper based, it's hard to know whether the right things have been checked, and easily prove you did the right thing in a future dispute. Putting the business at risk to making decisions based off unreliable information.

Curtain Wall	
ID	Window-01
Status	Complete
Exported By	James Ralph
Exported Date	15th April, 2021 at 08:57AM AEST

ITP Checklist Summary		
Yes	No	N/A
22	0	1

<input type="radio"/> Tower	Tower 1
<input type="radio"/> Location	On Site
<input type="checkbox"/> Recieved onsite date	11/06/22
<input type="checkbox"/> Installation Date	29/06/22
<input type="radio"/> Correct panel number for location	Yes

Materials tracking for Logistics

A logistics company can benefit from a material tracking software by achieving enhanced visibility and control over their supply chain processes. The software enables real-time tracking of materials, optimizing inventory management and reducing delays. This results in improved operational efficiency, minimized costs, and a streamlined workflow, ultimately leading to increased customer satisfaction and competitive advantage

Improve inventory warehouse management



HOW IT WORKS IN MATRAK

Track internal inventory and stock to reduce overheads and save time managing stock in the warehouse.

- ✔ Pack materials into QR coded pallets or containers assigned to specific levels and floors so warehouse teams can quickly find products and transport the correct materials to site
- ✔ Time-stamped audit logs allow traceability to know when materials move or if products are lost or damaged



WHY THIS MATTERS

Keeping better track of internal inventory takes the guesswork out of understanding how many items are in stock, which clients they need to go to and who accepted damaged products. Which helps make your business run more efficiently.



Materials tracking for Logistics

View Record	View Related	Activity Log
Yesterday		
James Nichols: Status - Arrived In Yard		Aug 21 at 13:56 PM
Last week		
Matt Hammond: Status - In Transit		Aug 14 at 10:13 AM
Matt Hammond: Status - Delayed		Aug 7 at 8:04 AM
Last month		
Matrak Support: Status - In Transit		Jul 11 at 12:01 PM
Matrak Support: Status - Packed		Jul 11 at 8:14 AM
Matrak Support: Location - Supplier Factory		Jul 11 at 8:14 AM
Earlier		
Matrak Support: Status - In Transit		Jul 11 at 12:01 PM
Matrak Support: Location - On Site		Jul 11 at 12:01 PM
Matrak Support: Status - On Site		Jul 11 at 12:01 PM

Protection of work



HOW IT WORKS IN MATRAK

Digital audit logs protect your work and prove when items were delivered and received. Keep quality assurance with the ability to attach photos that prove that all items were received and packed and in good condition.



WHY THIS MATTERS

Proving that your team is not responsible for lost or damaged materials can be costly, time-consuming and frustrating. Not only does this investigation waste valuable time and money, but it often requires extra resources to fix the error. It can also add supply chain delays during critical stages of the project.

You can avoid potential construction disputes and even litigation by ensuring that information is appropriately documented.

Materials tracking for Logistics

Competitive advantage: Provide a better service to your clients



HOW IT WORKS IN MATRAK

Matrak provides live visibility of all material movement and interactions through its life cycle and allows you to run full quality performance checks in the platform – ensuring proper quality checks, packing and warehousing standards are met. In turn, get confidence and peace of mind in the subcontractors you're working with.



WHY THIS MATTERS

Eliminate the struggle to find the right suppliers and partners for your construction projects. By using a tool that allows your subcontractors to provide live visibility of materials and their progress in the supply chain, you'll rest assured that you're working with companies committed to providing transparency to their clients.

Enhance your supply chain collaboration



HOW IT WORKS IN MATRAK

Matrak's material tracking software provides the essential communication needed for project-wide collaboration. Because Matrak is cloud-based software, all information entered, including when materials have been received and their warehouse location, is all accessible in real-time to everyone on your project network, even in their preferred language.

Inputting information into Matrak communicates material movement updates and information to clients and key project stakeholders.



WHY THIS MATTERS

Miscommunication can cause disputes within construction teams and clients and lead to missing materials and unwarranted delays.

Being able to provide real-time updates and visibility into the movements and location of materials enables project-wide supply chains to work together.

Materials tracking for Suppliers

Suppliers can leverage a material tracking system to streamline your manufacturing progress, meet expectations, and gain visibility for efficient scheduling and supply coordination – with the added benefit of proof of delivery.

Build your reputation as a global industry leader



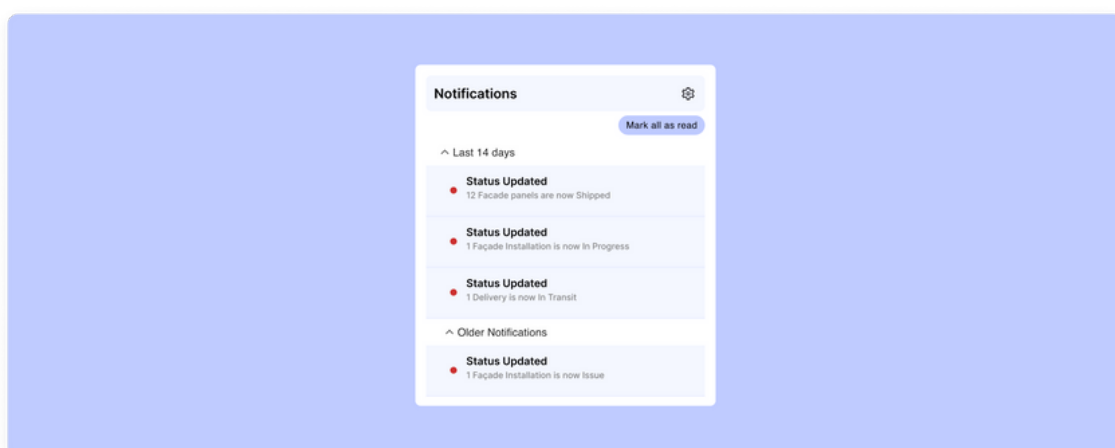
HOW IT WORKS IN MATRAK

- ✓ Produce run rate reports that provide real-time material procurement and tracking information
- ✓ Use QR code stickers to help your site and warehousing teams easily identify what products are in which stillages and crates. Meanwhile, interactive drawings help them identify where those materials are supposed to go onsite.
- ✓ Get reorders for defective items quicker with instant notifications. If a material is marked as defective on site, easily communicate this to your manufacturer or supplier with in-app notifications. Real time notifications assist with alleviating communication delays when reordered materials that can affect the project schedule – getting the job done faster
- ✓ Run full quality performance checks entirely in Matrak for confidence that your manufactured products meet the quality standard. Increase control of your quality assurance process to minimise risk of non conforming products before they arrive on site



WHY THIS MATTERS

The challenges of global supply chains puts your company's reputation at risk. But having a tool that can improve management of stakeholder communication and expectations helps you build trust in your services. Plus, using the right tools helps you provide exceptional services to your clients and protects your reputation as reliable partners in the industry.



Materials tracking for Suppliers

Monitor material progress for more control of your procurement process



HOW IT WORKS IN MATRAK

Matrak tracks your materials from procurement to sub-assembly, manufacturing to quality checking, straight through to dispatch out of the warehouse. Having clarity of where materials are along the supply chain gives you an indication of progress.

Being aware of disruptions ahead of time not only reduces the risk of potential problems happening along the way, but also helps you confidently meet customer requirements.



WHY THIS MATTERS

Having full visibility over your material procurement processes improves your customer service, as well as cost controls through inventory in motion within the supply chain and proactive status updates.

Reduce risks by linking the full quality assurance (QA) and quality control (QC) assessments to products before they arrive on site



HOW IT WORKS IN MATRAK

Run full quality performance checks entirely in Matrak to ensure your manufactured products meet the agreed standards. On Matrak, your Inspection Test Plan (ITPs) are digitised and linked to the item record, allowing you to manage and report on the quality of your supplied materials.

This minimises the risk of non-conforming products arriving on site. Matrak's audit log enables you to log the dates and people responsible for the work being inspected, which improves overall traceability.



WHY THIS MATTERS

Supplying quality materials builds trust with your clients. Providing evidence of your products' conformance to the agreed quality standards, before they get to site, reduces the risk of supplying materials that are below standard and wasting money through reorders

Materials tracking for Suppliers

Use tracking information to gain insights that improve your processes and increase forecasting accuracy



HOW IT WORKS IN MATRAK

Matrak consolidates your data on one centralised platform, providing insights that help you create unity in your supply chain, increase collaboration and predict challenges.

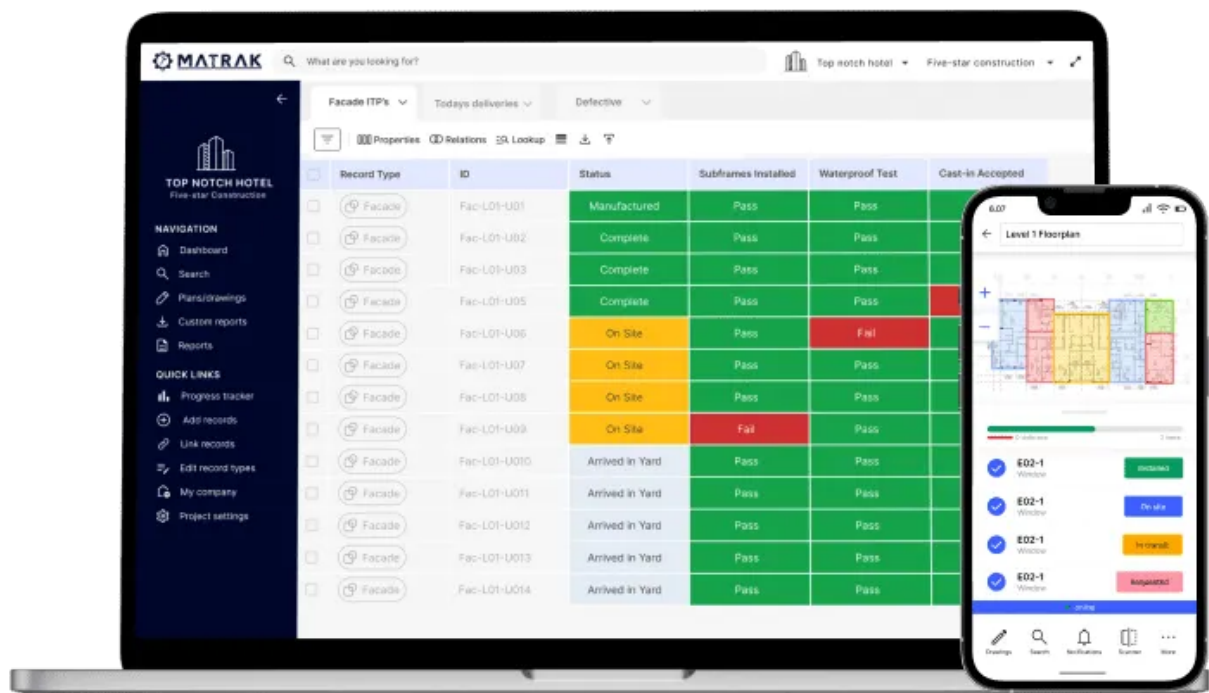
Access information easily to assist you in making quick, smart, data-backed decisions. Use this data to automatically generate reports to understand forecasting trends and make more informed business decisions.



WHY THIS MATTERS

Tracking information provides the foundation for future planning, capturing lessons learned, increasing quoting accuracy and more. Without the right tools, you might forecast demand incorrectly, which can lead to too much or too little inventory at different points in your supply chain.

Storing key information in multiple documents and spreadsheets can easily expose projects to risks. Plus, manual reporting on static data not only takes up valuable time, but can be inaccurate. This makes it unreliable when trying to make informed business decisions about forecasting trends to meet supply and demand.



Materials tracking for Installers

Installers can leverage a material tracking system to streamline accurate and damage-free installations, automate item call-ups to site, efficiently manage on-site teams, and simplify progress claims through automatic reporting of work done.

Save yourself hours of time and wasted resources by digitising your Inspection Test Plans (ITP)



HOW IT WORKS IN MATRAK

By digitising your ITPs, you have full control in managing and reporting on the quality of your work. Matrak allows you to:

- ✔ Monitor that all the tests and inspections have been completed
- ✔ Track the frequency of each test and inspection
- ✔ Log the persons responsible for the work being inspected, with the inclusion of dates for when these tests and inspections were carried out
- ✔ Real-time tracking of each activity during the installation
- ✔ Make notes and comments on ITPs with separate fields that indicate where sign off approval needs to be granted, prior to completion of works
- ✔ Print full ITP reports at the click of a button to submit to your clients during each phase of the project



WHY THIS MATTERS

For most, completing thorough and accurate inspection test plans is a laborious and time consuming task. It requires a worker to manually print, fill out, scan and file each document when using a paper based system. This also presents an extra risk when documentation is lost, damaged or destroyed on site.

Materials tracking for Installers

Easily coordinate 'Just in Time' deliveries



HOW IT WORKS IN MATRAK

Easily call up accurate product quantities to site and keep your work to the project schedule. Being able to view your project's interactive floor plans helps you to understand the progress of the build.

You can select the materials needed on site directly off the drawings, reviewing which stillages and what location they're in. Add or remove materials from the selection, then specify the required delivery date.



WHY THIS MATTERS

Getting the correct materials delivered in the right order, at the designated time and to the correct location on site, has always been an industry challenge. The ability to coordinate JIT deliveries means projects can be working at full capacity and keep to time schedules.

Protect your team and quality of work with digital audit trails



HOW IT WORKS IN MATRAK

Protect your work with built-in, real-time digital audit trails and attach photos to installed materials at any stage and location of the construction lifecycle.

Attaching photos along with Matrak's built-in auditing functionality provides quality insurance and proof of work that protects your bottom line.



WHY THIS MATTERS

Proving that your site team is not responsible for supplier or logistical errors can be an expensive and frustrating process.

Trying to find information on lost in transit items, materials being delivered short and defective items requiring a re-order not only wastes valuable time and money, but requires extra resources to fix the error. It also adds supply delays during critical stages of the project.

Materials tracking for Installers

Mitigate risks during installation through centralised communication and real time information



HOW IT WORKS IN MATRAK

While Matrak cannot predict the risks themselves, Matrak lets you monitor risks during the installation phase of your project to help you take mitigation actions. Having an activity audit trail that tracks the materials before they arrive on-site, means that it gives you more data to control the risk of things going wrong during installation.

- ✓ Workers on-site can use the app to inspect project progress, raise issues and alert the project manager (including sharing photos). As a result, no risk goes unreported
- ✓ Defects on materials are flagged in real-time to the responsible teams, along with photo proof of non-conformance
- ✓ All communication between stakeholders is also centralised and securely stored within the Matrak platform
- ✓ Matrak lets you document defects, view project progress, report any issues early and respond fast before things get out of control
- ✓ Receive a complete report of project progress at the click of a button



WHY THIS MATTERS

Having a centralised flow of communication is a key factor when responding to risks and preventing them from 'snowballing'. Using excel sheets and paper documentation to report on issues happening on site creates a lack of visibility, putting your company at risk. Paper reporting is harder to manage when issues arise on the job, which creates delays when communicating with site teams.

Matrak — the best material tracking solution for construction teams

Matrak was founded in 2017 and provides innovative mobile-first end to end supply chain tracking software solutions to the construction industry.

Our app is available on all iOS, Android and Windows devices and has helped more than 157 projects in over 5 countries to enable the power of supply chain transparency.

Get the app

