

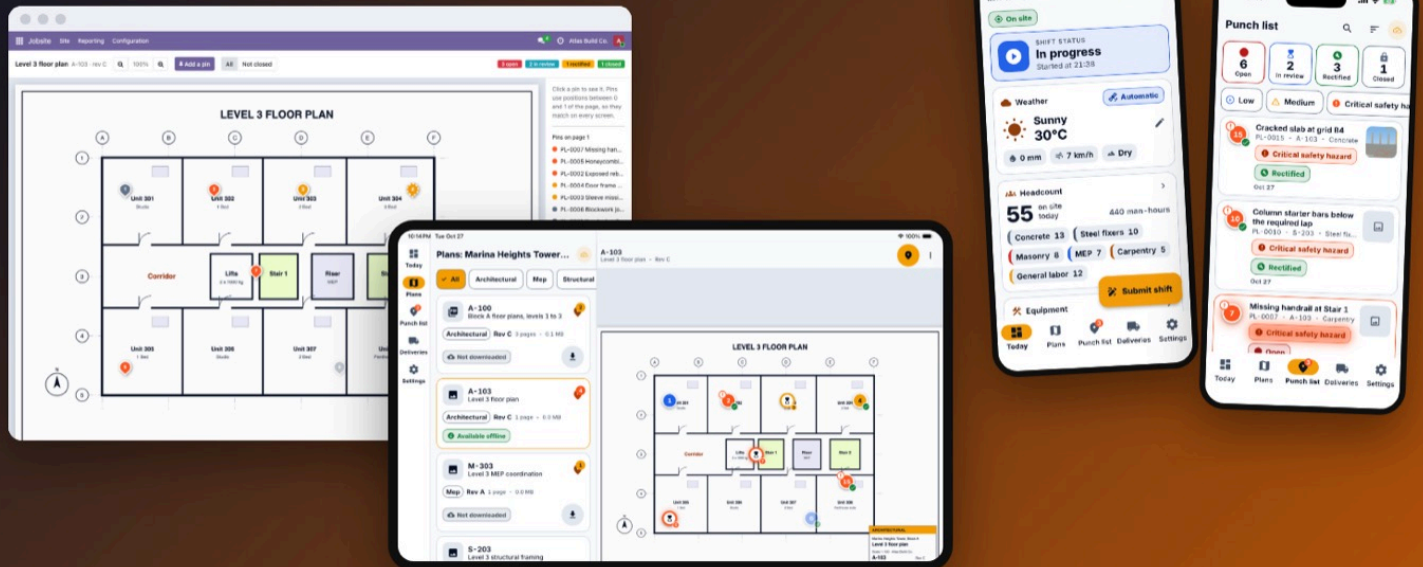
Odoo Construction Daily Site Diary & Punch List

A guide to the Odoo Construction Daily Site Diary & Punch List: installing the module, sites and geofence, trades and rate cards, equipment, budget versus actual, drawings and pins, the foreman's app, deliveries, offline sync, reports, the API and building the app.

1. Start here

In plain words: This package gives you a complete **construction daily site reporting and punch-list system** for **Odoo Community**: an **Odoo module** ([taqnix_construction_jobsite](#)) for the project office and the **Flutter source code** of the **app for iPhone, iPad and Android** that foremen use on site, with or without network coverage. The foreman writes the daily log (weather, delays, crews by subcontractor, machine hours and fuel, photos, signature), drops **pins on the blueprints** for defects, and checks **deliveries against the purchase orders**. The project office sees the costs against the budget the same day.

Offline on site. Costs in the office the same day.



Odoo module + an offline Flutter app for foremen, with blueprint pins and delivery GRN

The site app on a phone and a tablet, and the project in Odoo.

Tip: Nothing here needs Odoo Enterprise: the module uses Project, Timesheets (for the analytic account of the project), Purchase, Inventory and Invoicing only. Maps, Gantt and other Enterprise screens are not used.

2. What is in the package

Item	What it is
taqnix_construction_jobstie.zip	The Odoo 19 module: sites with geofence and budget, daily logs, trades and rate cards, equipment, drawings and the punch list, deliveries (digital GRN), budget versus actual, reports, the API of the app, Arabic translation, automated tests.
flutter-app-source.zip	The Flutter project (Android and iOS): offline database and outbox, sync engine, blueprint viewer with pin drop, daily log screens, delivery inspection with scanner and text recognition, English and Arabic, setup script and tests.
documentation/	This guide in English (index.html) and Arabic (index-ar.html), with PDFs, and API.md for developers.
licensing/	The licence (OPL-1: one purchase = one company and one app brand, updates included).
preview-images/	Screenshots of the app and of the Odoo screens.
changelog.txt	History of the versions.

3. How a working day runs

Moment	Who	What happens	In Odoo
Morning	Foreman	Opens the site, the app records the weather from the phone's position (or he types it), starts the log and counts the crews on site.	A draft daily log for the site and the day.
During the day	Foreman	Adds machine hours and fuel, delays, photos; drops pins on the drawings; receives the deliveries that arrive.	Pins, a delivery (GRN) with its photos, a receipt validated in Inventory, a backorder when it is short.
End of shift	Foreman	Runs the checklist and signs on the screen: <i>Submit shift</i> .	The log is submitted; labor and equipment costs are posted to the analytic account of the site.
Next morning	Project manager	Approves the log or rejects it with a reason; follows the critical pins.	Approved log, a to-do for the foreman after a rejection.
Any time	Quantity surveyor	Compares the budget with the actual cost by labor, equipment, material and other; closes the rectified pins.	Budget versus actual, cost analysis, punch list.

In plain words: Offline first. Concrete basements have no signal: every log, photo, pin and delivery is saved on the phone first and sent to Odoo when there is a connection, once, in order, with safe retries (chapter 21).

4. What you need

Item	Details
Odoo	19.0 Community or Enterprise. Project, Timesheets, Purchase, Inventory and Invoicing are installed automatically with the module.
Chart of accounts	Any localization; the purchase orders and vendor bills use it. Costs of the logs are posted on the analytic account of the project.
Address	A public https address for Odoo (the phones must reach it). On a closed network you can use an http address of the LAN if you build the app for it.
Phones and tablets	Android 8 or newer, or iPhone / iPad with iOS 15 or newer, with a camera and GPS. A tablet is best for the drawings.
Weather	The app can read the weather of the site for free from the Open-Meteo service when the phone is online (no key needed); offline the foreman types it.
A computer to build the app	A Mac for iPhone and Android (Windows or Linux can build Android only), about 30 GB free, Flutter 3.41 or newer, Android Studio and Xcode.
Store accounts	Google Play Console and Apple Developer Program, or internal distribution to your own staff.

5. Install the Odoo module

- 1 Unzip the package. Inside is `taqnix_construction_jobsite.zip` ; unzip it to get the folder `taqnix_construction_jobsite` .
- 2 Copy the folder into one of the `addons_path` folders of your Odoo server and restart Odoo.
- 3 Log in as an administrator, activate **Developer mode**, open **Apps** and press **Update Apps List**.
- 4 Remove the "Apps" filter, search **Construction Jobsite** and press **Install**.

```
# or from the command line
./odoo-bin -c odoo.conf -d YOUR_DATABASE -i taqnix_construction_jobsite --stop-after-init
```

In plain words: After the installation a new app **Jobsite** appears in the main menu. The installation also creates the trades (Carpentry, MEP, Masonry, Steel fixers, Concrete, Finishing, General labor), the sequences of the logs, the pins and the delivery notes, and a reminder for missing logs.

Important: Take a backup before installing on a production database, as for any module.

6. First setup in 30 minutes

- 1 Open **Jobsite** → **Configuration** → **Sites** and create or open a project: tick *Jobsite reporting*, type the site code, the coordinates and the radius, and add the **foremen** (chapter 7).
- 2 Give users the groups *Foreman*, *Quantity Surveyor* or *Project Manager* (chapter 13).
- 3 Mark your subcontractors (**Configuration** → **Subcontractors**) and set their trades and the **rate cards** (chapter 8).
- 4 Add the **equipment** with its rates and fuel prices (chapter 9).
- 5 Enter the **budget** of the site by labor, equipment, material and other (chapter 10) and tick the site on its purchase orders.
- 6 Upload the **drawings** (PDF or pictures) (chapter 11).
- 7 Build the app with the setup script (chapter 25), install it on the phones, sign in and write a first log.

Tip: The demo data of the screenshots (Atlas Build Co.: two sites, drawings, pins, logs, purchase orders) is created by `tests/seed.py` in the source package: it is a complete example of every setting.

7. Sites, foremen and the geofence

In plain words: A **site** is a normal Odoo project with *Jobsite reporting* switched on. The *Jobsite* tab holds everything: code, address, the foremen who report on it, the coordinates and the radius of the geofence, the budget and the actual figures.

JobsiteSiteReportingConfiguration

Atlas Build Co.

New

Sites

Marina Heights Tower, Block A

Tasks0 / 0 (0%)

Dashboard0 Status

Daily logs12

Open pins10

Deliveries3

Plans4

1 / 1

Share Project

Send messageLog noteActivity

☆ Marina Heights Tower, Block A

Name of the TasksTasks

Project ManagerH Hana Qureshi

Planned DateMar 31

Allocated Time00:00

Customer

Tags

DescriptionSettingsJobsite

SITE

Jobsite reportingMHT-A

Site codeDubai Marina, Plot 12, Dubai

ForemenFaisal Al Mazrouei

GEOFENCE

Latitude25.0805000

Longitude55.1403000

Geofence radius (m)250

Block submission outside the site

BUDGET

Labor budget	140,000.00
Equipment budget	62,000.00
Material budget	150,000.00
Other budget	18,000.00
Total budget	370,000.00
Percent complete (%)	42.00

ACTUAL AND VARIANCE (BUDGET MINUS ACTUAL)

Labor actual	97,315.50
Equipment actual	17,573.70
Material actual	26,970.00
Other actual	0.00
Total actual	141,859.20
Total variance	228,140.80
Budget used (%)	38 %
Cost performance index	1.10
Material committed	45,530.00

Today

OdooBot 7:39 PM

Project created

The Jobsite tab of a project: foremen, geofence, budget and actual.

Field	What it does
Foremen	Users who see this site in the app, write its logs and drop its pins. A foreman sees only the sites he is assigned to.
Latitude, Longitude, Geofence radius	Where the site is. The app shows the distance to the site and records, at submission, whether the phone was inside the radius.
Block submission outside the site	On: the foreman cannot submit the log outside the radius unless he types a reason (the project manager gets a to-do). Off: the log is flagged only.
Percent complete	Physical progress entered by the project manager; used for the cost performance index.

In plain words: Several sites are normal: the app opens on a **site picker** with the distance to each site, and everything (logs, pins, plans, deliveries) stays separate per site.

8. Trades, subcontractors and rate cards

In plain words: Crews are logged by **subcontractor** and **trade**. A trade has a default hourly rate and an overtime multiplier; a **rate card** overrides it for a subcontractor, a project, or both.

Jobsite

Site

Reporting

Configuration

4

Atlas Build Co.

New

Rate cards

Search...

1-3 / 3

<

>

☐ Trade	Subcontractor	Project	Hourly Rate	Overtime m...	Date From	Date To
☐ MEP	Gulf MEP Contractors	Marina Heights Tower, Block A	\$ 26.00	1.50		
☐ Steel fixers	Steelworks United	Marina Heights Tower, Block A	\$ 18.50	1.50		
☐ Concrete	Delta Concrete Works	Marina Heights Tower, Block A	\$ 21.00	1.50		

Rate cards: the most specific card wins.

Rate used (in this order)	Example
Card of the project and the subcontractor	Gulf MEP on Marina Heights: 26.00 per hour
Card of the project	All masons on Marina Heights: 17.50
Card of the subcontractor	Steelworks United everywhere: 18.50
Default rate of the trade	MEP: 24.00
Cards can have dates	A card that starts next month does not apply yet

In plain words: Labor cost of a crew line = headcount × hourly rate × (regular hours + overtime hours × overtime multiplier). Foremen never see rates or costs: those fields are protected by access rights (quantity surveyors and project managers see them).

Jobsite Site Reporting Configuration			
Atlas Build Co.			
New Subcontractors		Search...	
1-6 / 6			
☐ Name	Trades	Phone	Email
☐ Al Noor Masonry	Masonry Finishing	+971 4 555 0192	
☐ Atlas Direct Labor	General labor	+971 4 555 0196	
☐ Delta Concrete Works	Concrete	+971 4 555 0195	
☐ Emirates Carpentry	Carpentry	+971 4 555 0194	
☐ Gulf MEP Contractors	MEP	+971 4 555 0191	
☐ Steelworks United	Steel fixers	+971 4 555 0193	

Subcontractors with their trades.

9. Equipment: owned and rented machines

In plain words: Each machine has a fleet number, a kind (excavator, crane, pump, generator, loader...), *owned* or *rented* (with the rental company), a meter in hours or kilometres, an hourly rate and a fuel unit and price. A machine can be limited to some sites.

JobsiteSiteReportingConfiguration

4

Atlas Build Co.

NewEquipment

Search...

1-5 / 5

☐ Code	Name	Kind	Ownership	Rental company	Last meter r...	Hourly rate
☐ CP-45	Concrete pump P-45	Concrete pump	Rented	Pumps & Lifts LLC	637.0	\$ 95.00
☐ EX-320	CAT 320 excavator	Excavator	Owned		4,298.5	\$ 85.00
☐ GEN-100	Generator 100 kVA	Generator	Owned		1,759.5	\$ 12.00
☐ LD-120	Wheel loader L-120	Loader	Owned		2,271.0	\$ 60.00
☐ TC-1	Tower crane TC-1	Crane	Rented	CraneCo Rentals	979.0	\$ 140.00

The fleet with last meter readings and rates.

Setting	Meaning
Hourly rate	Charge-out rate of an owned machine or the rental rate, per <i>active</i> hour.
Idle billed (%)	Share of the rate charged for hours the machine stood (a rented crane is usually paid while it waits).
Breakdown billed (%)	Share charged for breakdown hours (normally 0).
Fuel price, Fuel included	Fuel is charged on top unless the hire is <i>wet</i> (fuel included).
Last meter reading	Updated at every submitted log; the app starts the next day from it.

In plain words: **Equipment cost of a line** = active hours × rate + idle hours × rate × idle % + breakdown hours × rate × breakdown % + fuel × fuel price.

10. Budget versus actual

In plain words: Every site has a budget in four lines: **labor, equipment, material and other**. The actual cost comes from Odoo records you already keep:

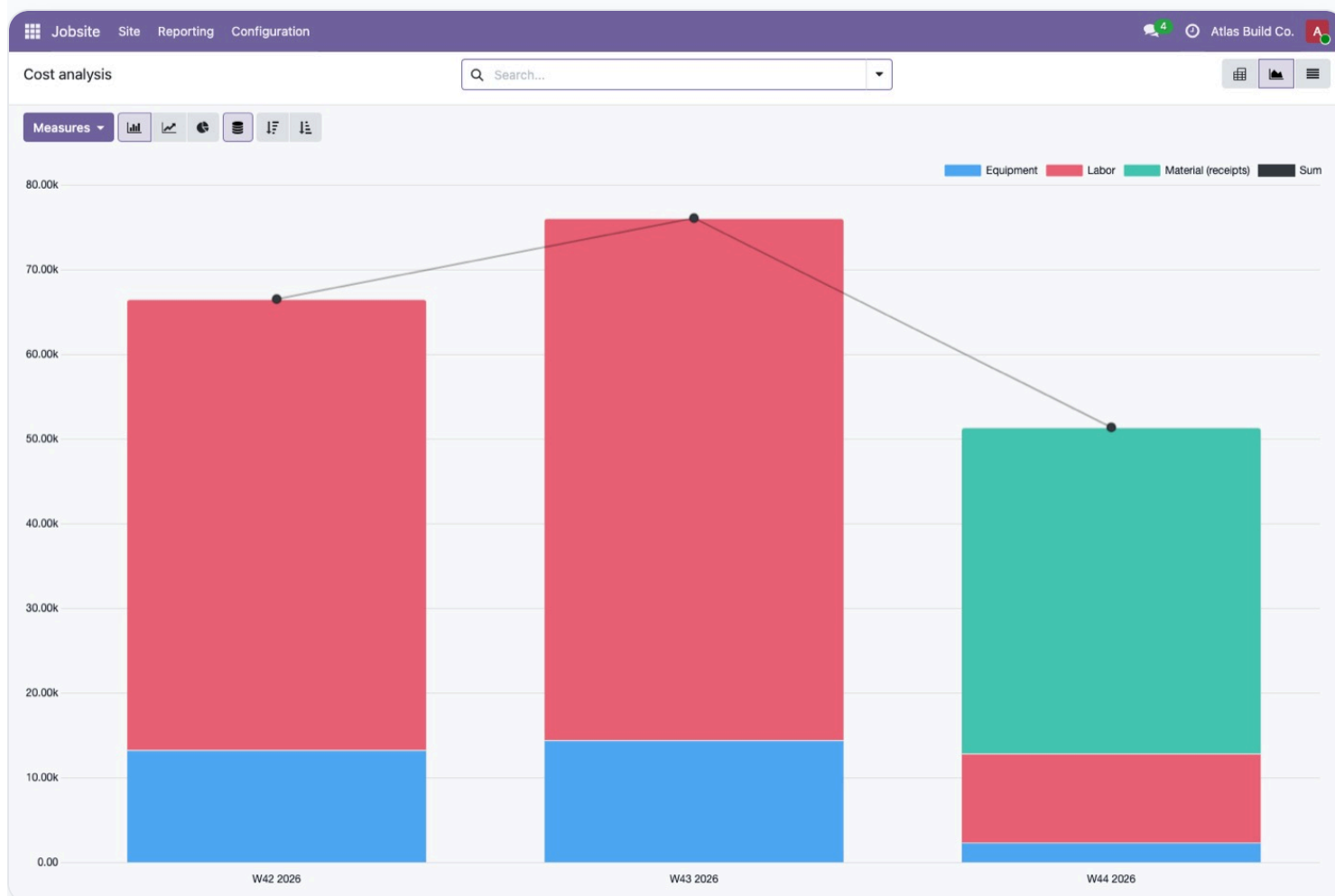
Line	Where the actual cost comes from
Labor	The crew lines of the submitted (or approved) daily logs: man-hours × rates, posted on the analytic account of the project.
Equipment	The machine lines of the logs: hours, idle, fuel.
Material	Validated receipts of the purchase orders marked with the site, valued at the order price (default), or posted vendor bills with the analytic account of the site: choose in the settings.
Other	Any other analytic cost of the site account (timesheets of your own staff, expenses).

Jobsite Site Reporting Configuration										
Atlas Build Co.										
Budget versus actual										
Search...										
1-2 / 2										
Name	Project Manager	Total budget	Labor actual	Equipment ac...	Material actual	Total actual	Total variance	Budget used (%)	Complete (%)	Cost perfor...
Al Khail Logistics Park	Hana Qureshi	\$ 167,000.00	\$ 28,019.00	\$ 12,541.90	\$ 11,520.00	\$ 52,080.90	\$ 114,919.10	31 %	28.00	0.90
Marina Heights Tower, Block A	Hana Qureshi	\$ 370,000.00	\$ 97,315.50	\$ 17,573.70	\$ 26,970.00	\$ 141,859.20	\$ 228,140.80	38 %	42.00	1.10
		\$ 537,000.00	\$ 125,334.50	\$ 30,115.60	\$ 38,490.00	\$ 193,940.10	\$ 343,059.90			

Budget versus actual of all sites: variance, percent used, cost performance index.

In plain words: **Variance** = budget – actual (negative means over budget). **Percent used** = actual ÷ budget. **Cost performance index** = earned value ÷ actual, where earned value = total

budget × percent complete: above 1 you spend less than the work done is worth, below 1 more. *Material committed* shows the confirmed purchase orders still to be received.



Cost analysis by week and type.

Tip: Mark the site on the purchase order (field *Jobsite*) so its receipts count as the material cost of the site and appear in the app for delivery inspection.

11. Drawings and the plan viewer in Odoo

In plain words: Upload the sheets of each site under **Jobsite → Site → Drawings: PDF** (several pages are fine) or **PNG, JPEG or SVG**. Odoo stores the file, its hash and its page count; the app downloads a sheet once and keeps it on the device, so drawings work offline. For a PDF you can upload a picture of the first page as the preview shown in Odoo.

Jobsite
Site
Reporting
Configuration

Atlas Build Co.

New
Drawings

Search...

1-6 / 6

Site layout
A-001 · rev A · 1 p
3 open pins

Site layout (PDF)
A-001P · rev A · 1 p

Block A floor plans, levels 1 to 3
A-100 · rev C · 3 p
2 open pins

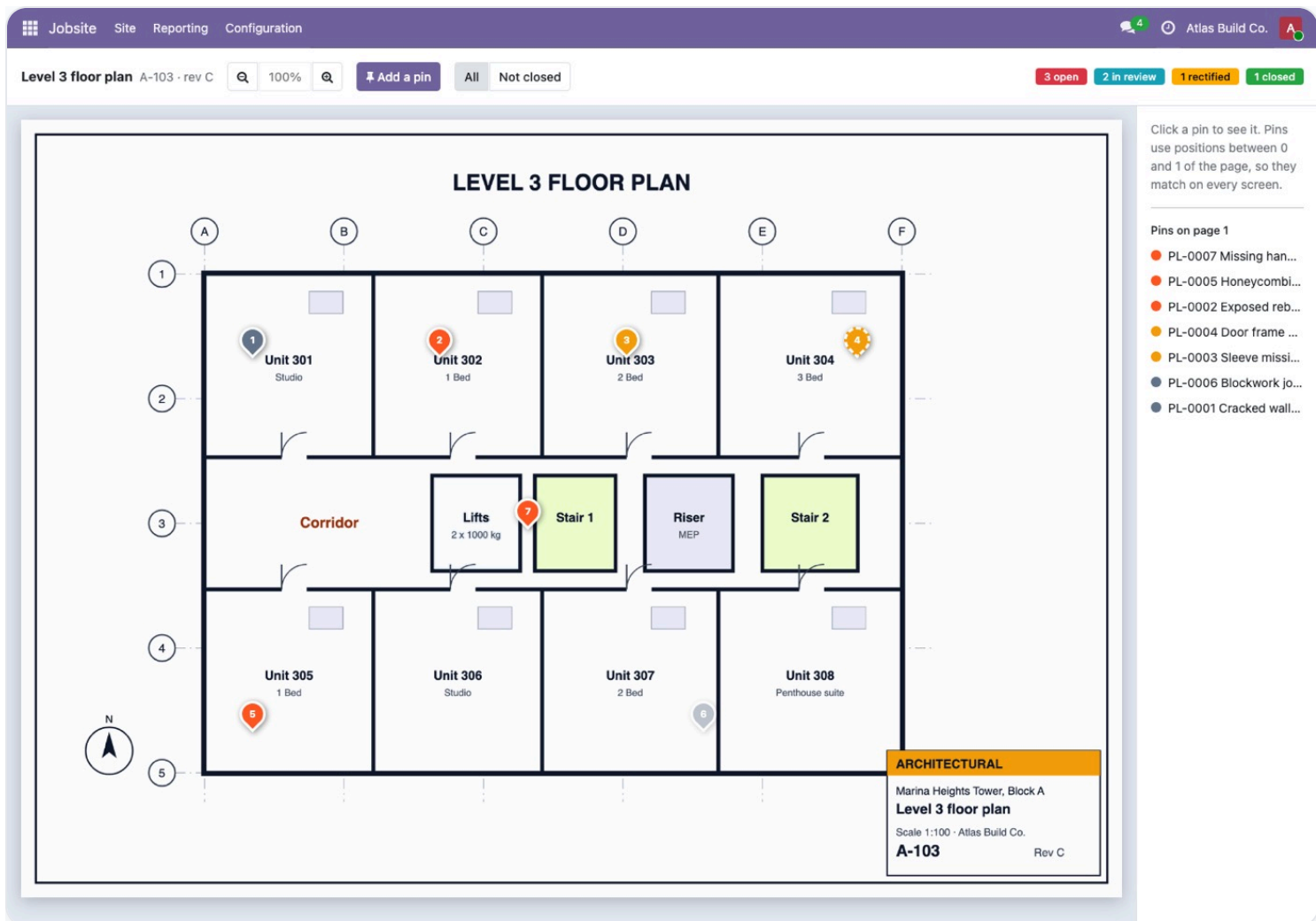
Level 3 floor plan
A-103 · rev C · 1 p
6 open pins

Level 3 MEP coordination
M-303 · rev A · 1 p
1 open pins

Level 3 structural framing
S-203 · rev B · 1 p
1 open pins

The drawings of the sites with their open pins.

In plain words: Press *Open the plan with its pins* for the **viewer in Odoo**: every pin of the sheet is drawn at its exact position with the colour of its severity; click a pin to see it or open it; the project manager can add a pin by clicking on the plan.



The plan viewer in Odoo with the pins of the sheet.

In plain words: Pins use normalized coordinates: the position is stored as a share of the page width and height (0.0 to 1.0, origin at the top left), so a pin dropped on a phone appears at the same place on a tablet, in Odoo and on a printed copy.

12. Settings reference

JobsiteSiteReportingConfiguration

Atlas Build Co.

SaveDiscardSettings

Search...

General SettingsPurchaseInventoryInvoicingProjectTimesheetsJobsiteEmployees

Daily log

Sign-off

The foreman signs on the screen when he submits the log. The project manager approves or rejects it.

Foreman signature to submit

☒

Post the costs

When the foreman submit

Reminders

Foremen who have not started the log of the day get a to-do after this hour.

Remind foremen about missing logs

☒

Missing log reminder at

18:00

Geofence

The app compares the position of the phone with the site when the log is submitted. The defaults here are copied to new projects.

Block submission outside the site

☐

Default geofence radius (m)

200

Deliveries and costs

Delivery inspection

Photos the foreman must take when he receives a delivery, and how much more than ordered is accepted.

Delivery ticket photo is mandatory

☒

Vehicle plate photo is mandatory

☒

Over-delivery tolerance (%)

0.00

Budget versus actual

Where the material cost of a site comes from.

Material actuals from

Validated receipts

Jobsite → Configuration → Settings.

Setting	Meaning
Foreman signature to submit	The foreman signs on the screen; the signature is stored on the log and printed on the report.
Post the costs	When the foreman submits (default: the budget moves the same day) or when the manager approves.
Block submission outside the site, default radius	Defaults copied to new projects.
Remind foremen about missing logs	After the chosen local hour a foreman who has not started the day's log gets a to-do.
Delivery ticket / plate photo is mandatory	The app refuses a delivery without them.
Over-delivery tolerance (%)	How much more than ordered a delivery may bring.
Material actuals from	Validated receipts or posted vendor bills.
Photo size, quality	The app shrinks photos on the phone before sending.

13. Roles and devices

Group (Construction Jobsite)	Can
Foreman	Sign in to the app for the assigned sites: daily logs, punch list, drawings, deliveries. Cannot see rates, costs or budgets.
Quantity Surveyor	Everything a foreman can on all sites, plus rates, costs, budget versus actual; closes and reopens pins.
Project Manager	Everything, plus sites, trades, rate cards, equipment, approving and rejecting logs, settings.

In plain words: Every phone that signs in appears in **Configuration → Devices** with its app version and the last time it was seen; delete a device to sign it out. Accounts with two-factor authentication cannot use the app.

The image shows a web application interface for managing devices. At the top is a dark purple navigation bar with a grid icon and links for 'Jobsite', 'Site', 'Reporting', and 'Configuration'. On the right side of this bar are icons for a chat bubble with a '4' badge, a clock, the text 'Atlas Build Co.', and a profile picture. Below the navigation bar is a white header section. On the left of this header is the word 'Devices' followed by a gear icon. To the right is a search bar with a magnifying glass icon, the placeholder text 'Search...', and a dropdown arrow. Below the header is a table with five columns: 'User' (with a checkbox), 'Device', 'Platform', 'App version', and 'Last Seen'. The table body is currently empty, showing only the header row and several empty rows with light gray and light yellow alternating background colors. The main content area below the table is a large, empty light gray rectangle.

Devices that signed in.

14. The app: sign in and pick the site

In plain words: Enter the address of your Odoo, the login and the password. After signing in the app shows the **sites** of the user with the distance from the phone and a badge when the phone is inside the site's geofence.

9:41



العربية



Jobsite

Daily site reports, blueprints and punch list

Email or login

faisal@atlasbuild.example

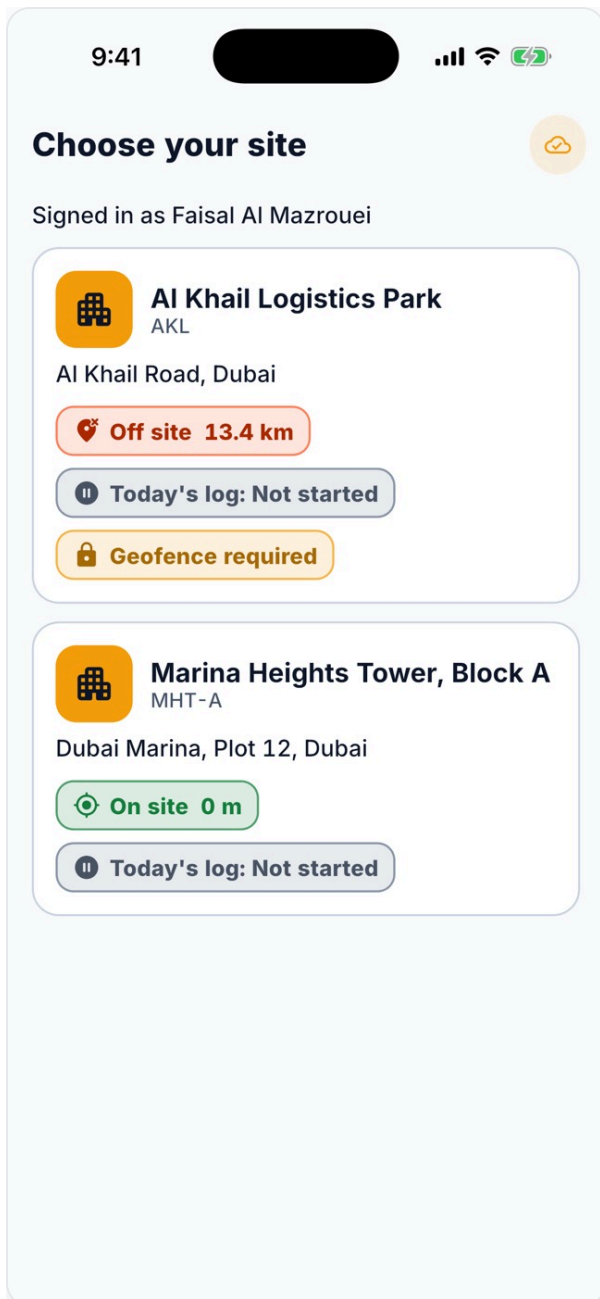
Password

.....



→ Sign in

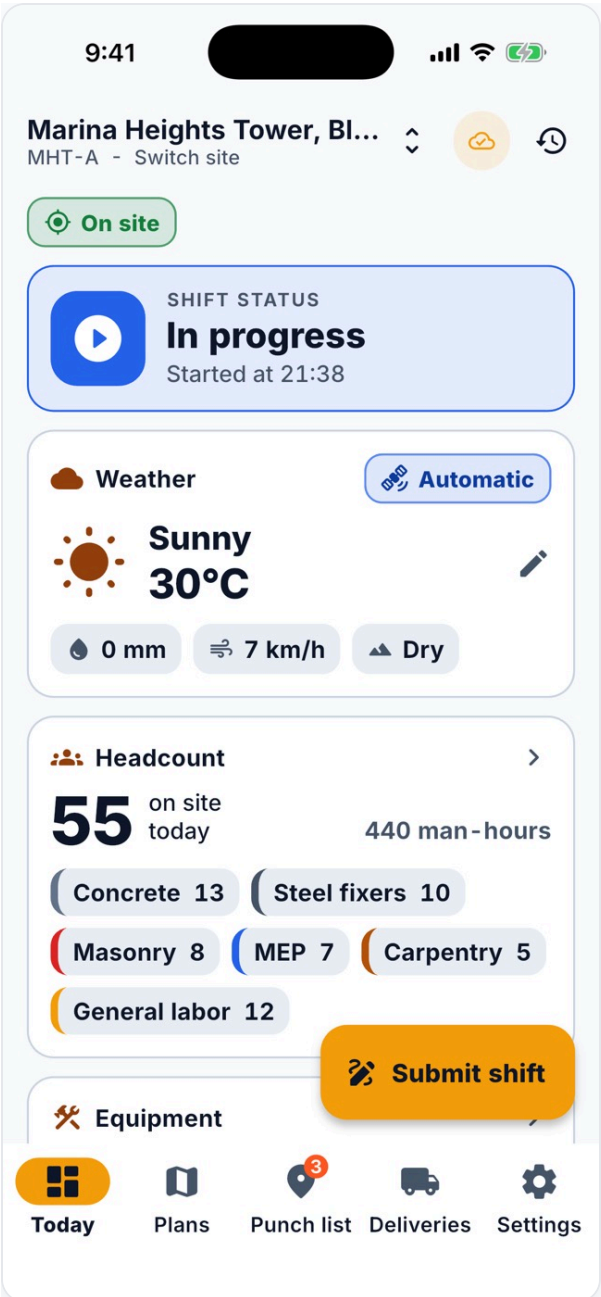
Sign-in.



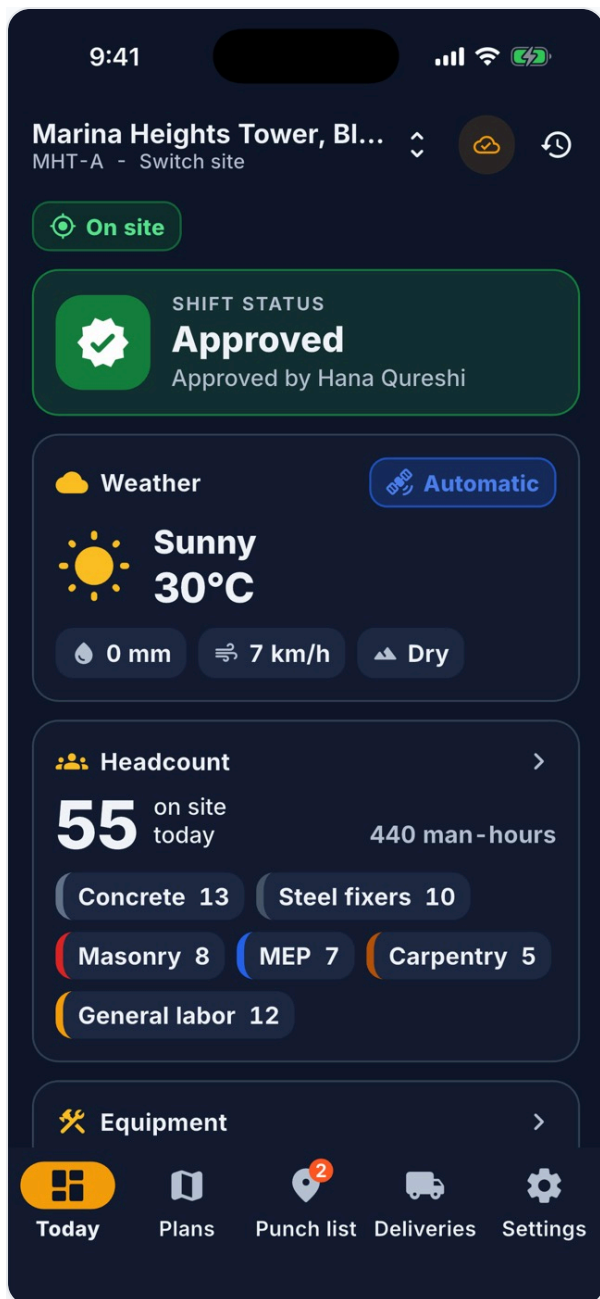
The site picker with the distance and the state of today's log.

15. The daily site dashboard

In plain words: The dashboard is the foreman's home: the **shift status**, the **weather**, the **headcount tiles**, the **equipment health**, delay hours, open punch items, today's deliveries and a big **Submit shift** button. A timeline lists what happened today.

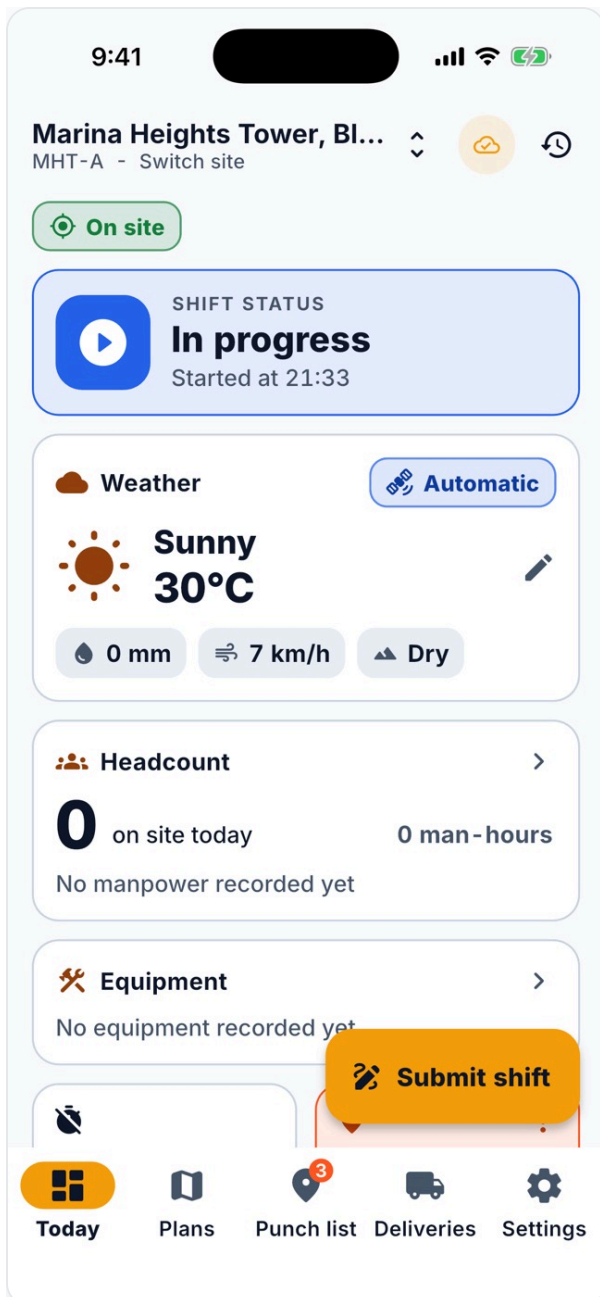


The dashboard in light mode (best in sunlight).



Dark mode.

In plain words: Weather. When the phone is online the app reads temperature, rain, wind and conditions for the site's position from the free Open-Meteo service and marks the source *weather service*. Offline, or if you disagree, tap the card and type the values (*entered by the foreman*), including the ground condition (dry, damp, wet, muddy, frozen, flooded).



The weather card.

16. Manpower and equipment counters

In plain words: Manpower. Add a line: the subcontractor, the trade, then use the large **headcount counter** (hold to repeat; every tap gives a vibration), set regular and overtime hours per worker, and see the man-hours at once. *Same crews as the last log* copies the crews of your previous log. Quantity surveyors and managers also see the estimated cost.

9:41

<

Manpower

TOTAL ON SITE

55

440 man-hours

Same crews as the last log

Delta Concrete Works

Concrete

-

13

+

Regular hours

-

8 h

+

Overtime hours

-

0 h

+

Man-hours

104

Steelworks United

Steel fixers

-

10

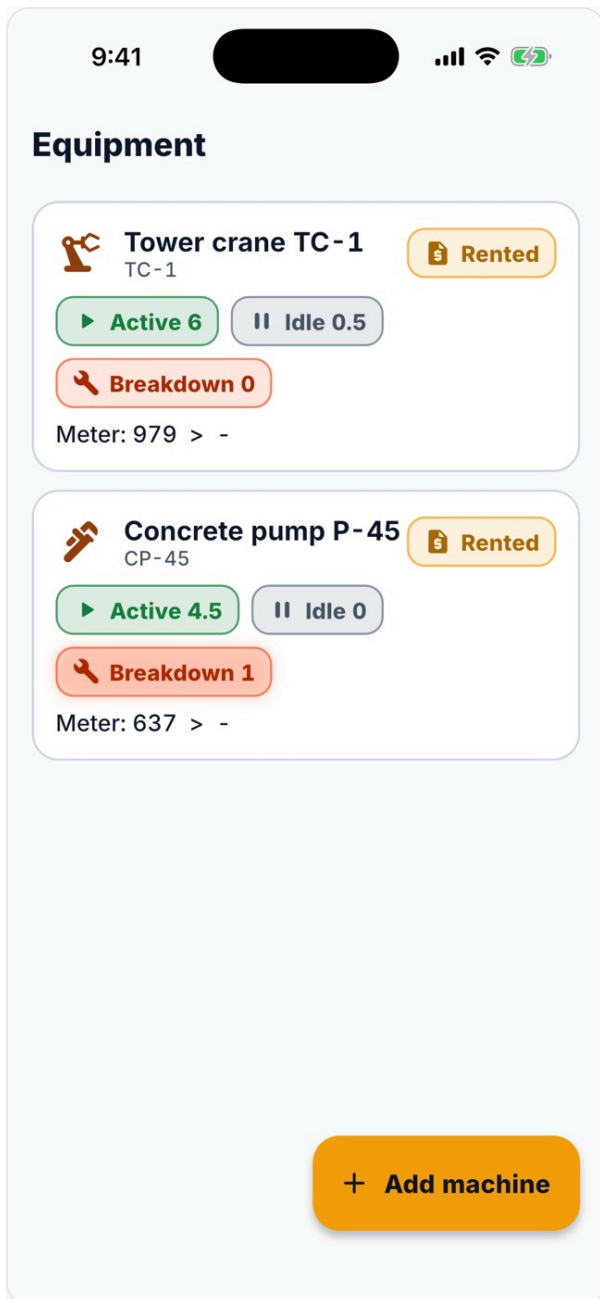
+

Add crew

Regular hours

The crew counters with man-hours.

In plain words: Equipment. Pick a machine (owned or rented), the meter start comes from the last reading, type the end reading (active hours are suggested from the difference), idle and breakdown hours, the fuel taken and the operator. The app checks that the end reading is not below the start and that the hours of a machine do not exceed 24.



The machine log.

17. Delays, photos, notes and the signature

In plain words: Record **delays** by category (weather halt, client stoppage, permit delay, material shortage, equipment breakdown, labor shortage, safety stoppage, other) with the hours and a note. Add **photos** (progress, safety or general) with a caption; the app compresses them on the phone and keeps them until they are sent.

9:41



Delays



Delay hours

1.5 h



**Equipment
breakdown**

Equipment breakdown

0.5 h



Weather halt

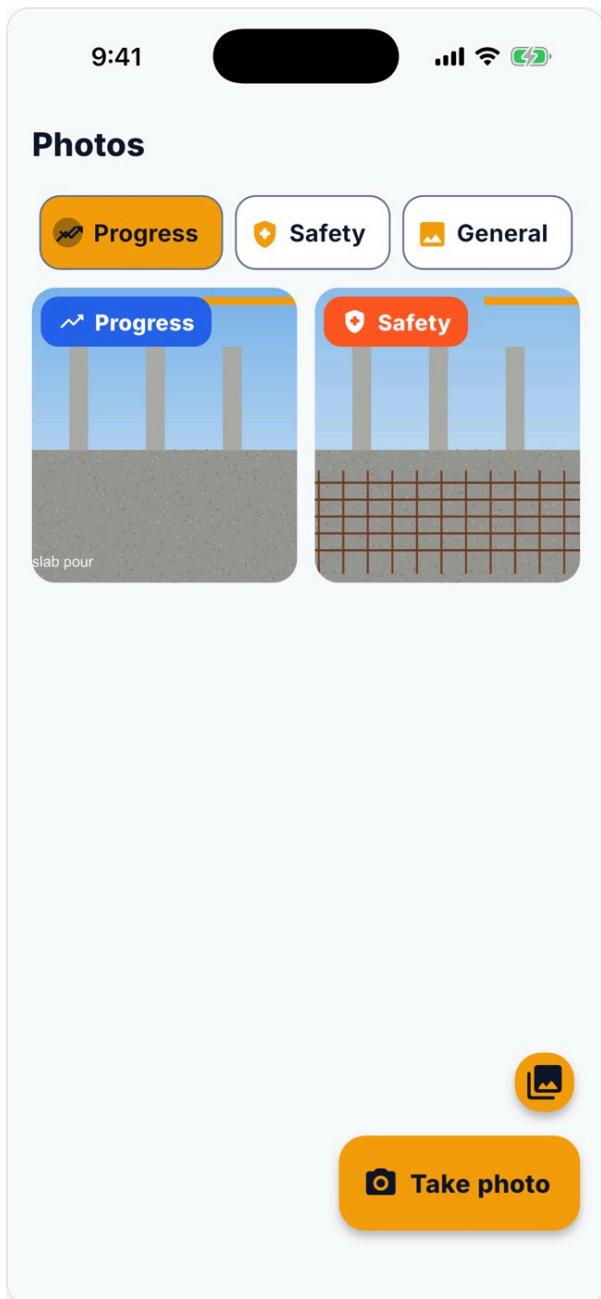
Checked on site by
foreman

1 h



+ Add delay

Delays by category.



Photos of the day.

In plain words: Submit shift. The checklist shows what is still missing (weather, crews, meters, photos); then the foreman signs with his finger. The app records the distance to the site; outside the geofence it explains and, if the site enforces it, asks for a reason.

9:41

Submit shift

 **Site position**

 You are 0 m from the site centre, inside the site area.

 Refresh position

 **Sign off**

Sign with your finger. After this the log is locked.

Name of the signer

Faisal Al Mazrouei



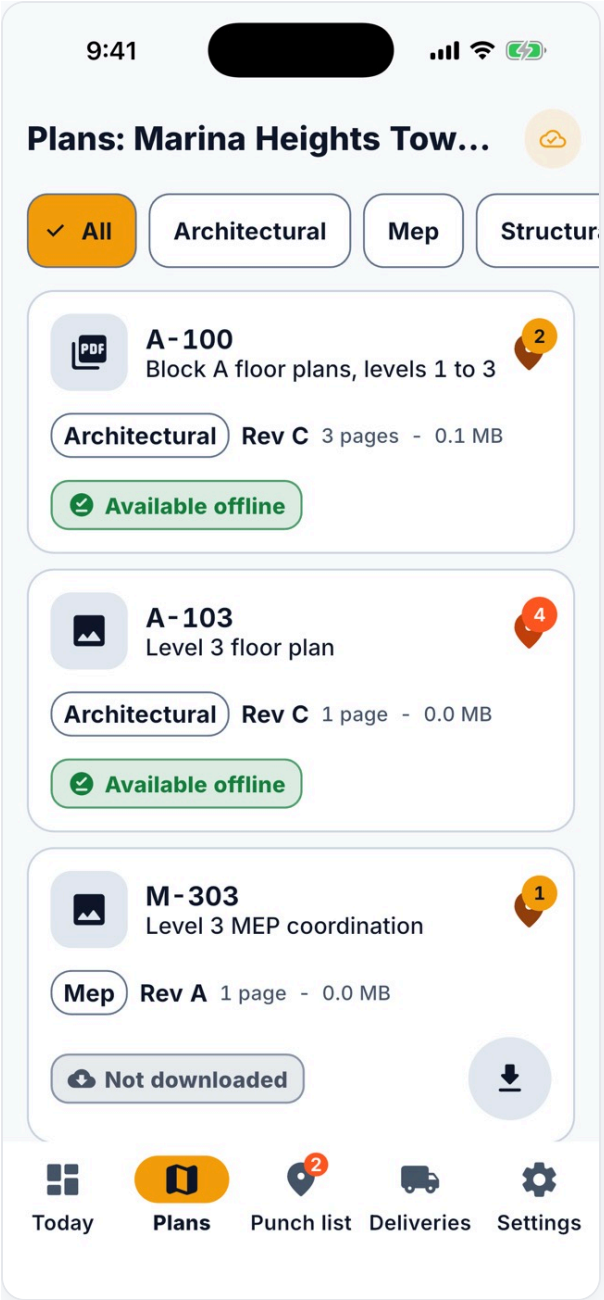
 Clear

 Sign and submit

The signature sign-off.

18. Blueprints and the pin-drop punch list

In plain words: Open **Plans:** the sheets of the site with their revision and whether they are available offline. The first time a sheet is downloaded (once per version); after that it opens instantly without network. **PDFs are rendered natively, page by page, in vector quality,** so lines stay sharp at any zoom; pictures use the same viewer.

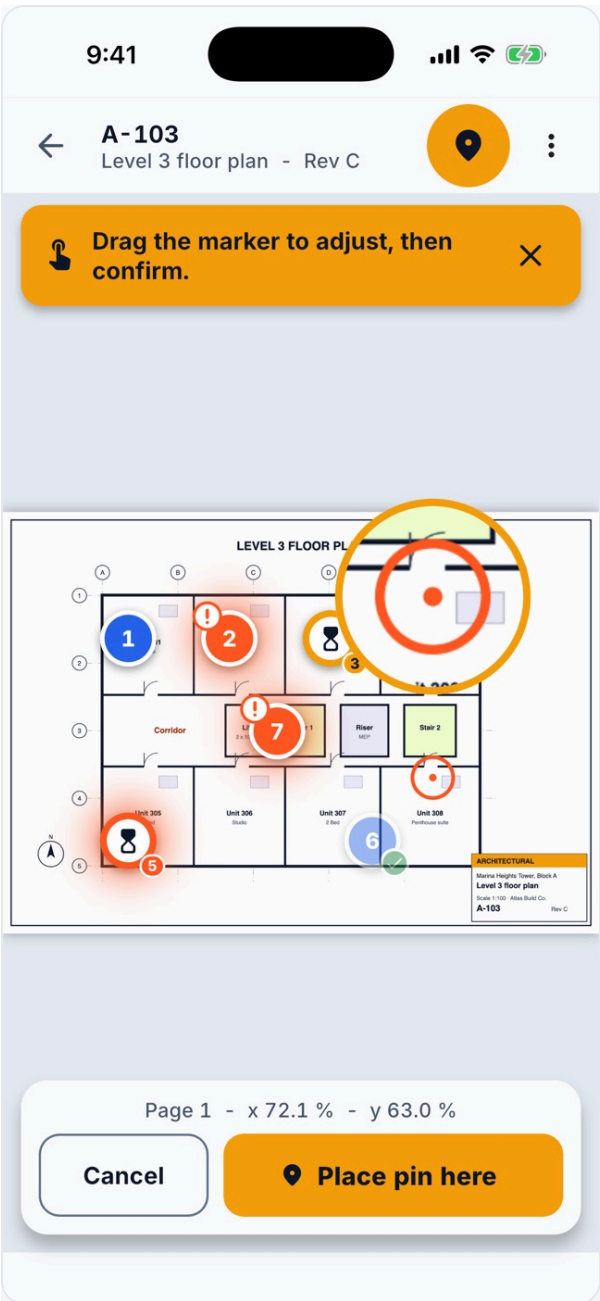


The drawings of the site.

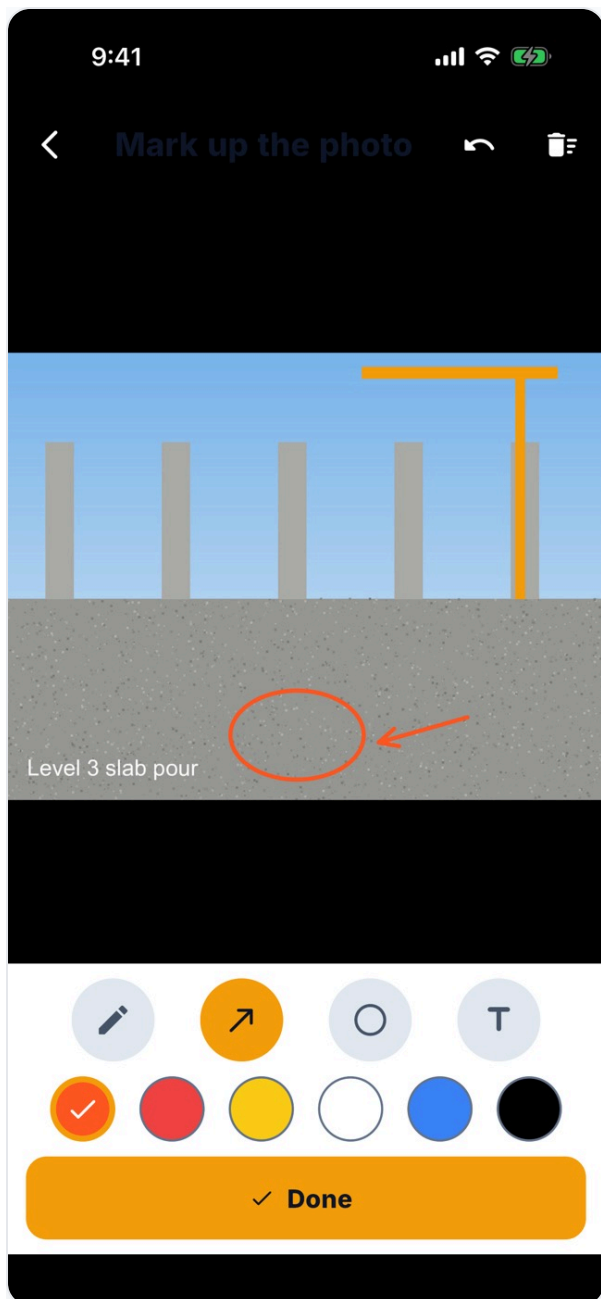


A plan with the pins of all severities: pinch to zoom, drag to pan.

- 1 Zoom to the room, press **Add pin** (the large button at the bottom right), and tap the exact spot; a loupe helps to place it precisely.
- 2 Write the **title**, choose the **trade responsible** and, if you know it, the subcontractor, the **severity** (low, medium, critical safety hazard) and the **target date**.
- 3 Take a **photo** and mark it up with the pen, arrow, circle or text; the markup is kept as data and also drawn into the photo.
- 4 Save: the pin stays on the plan and goes to Odoo with the next sync.



Placing a pin.

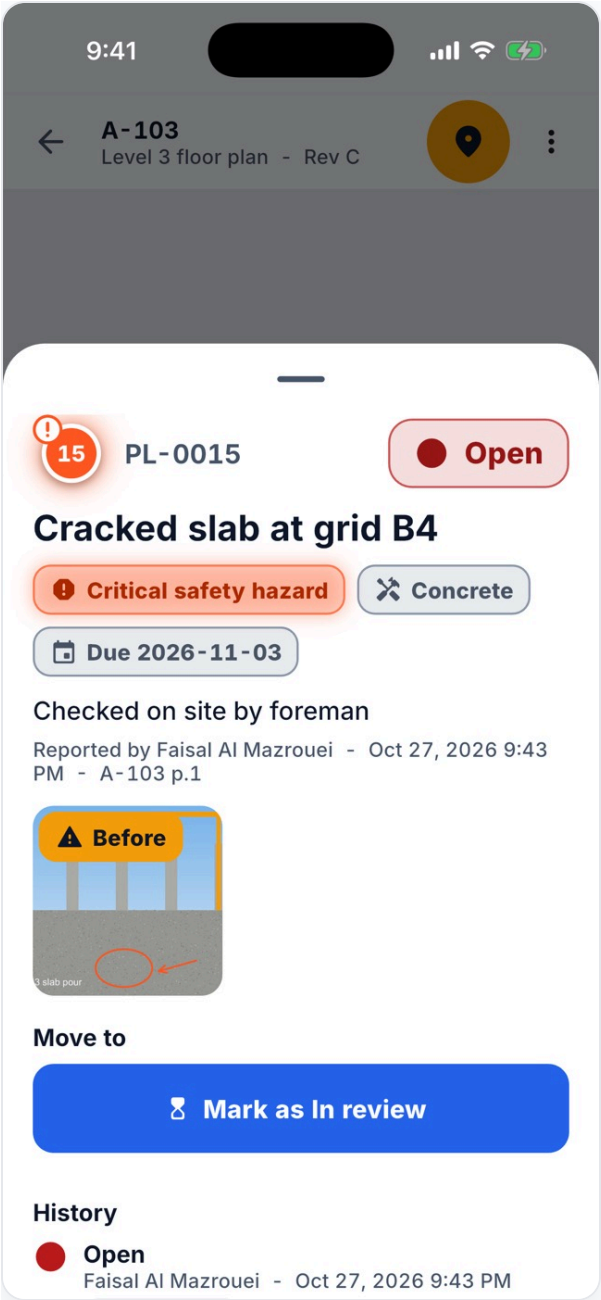


Marking up the photo.

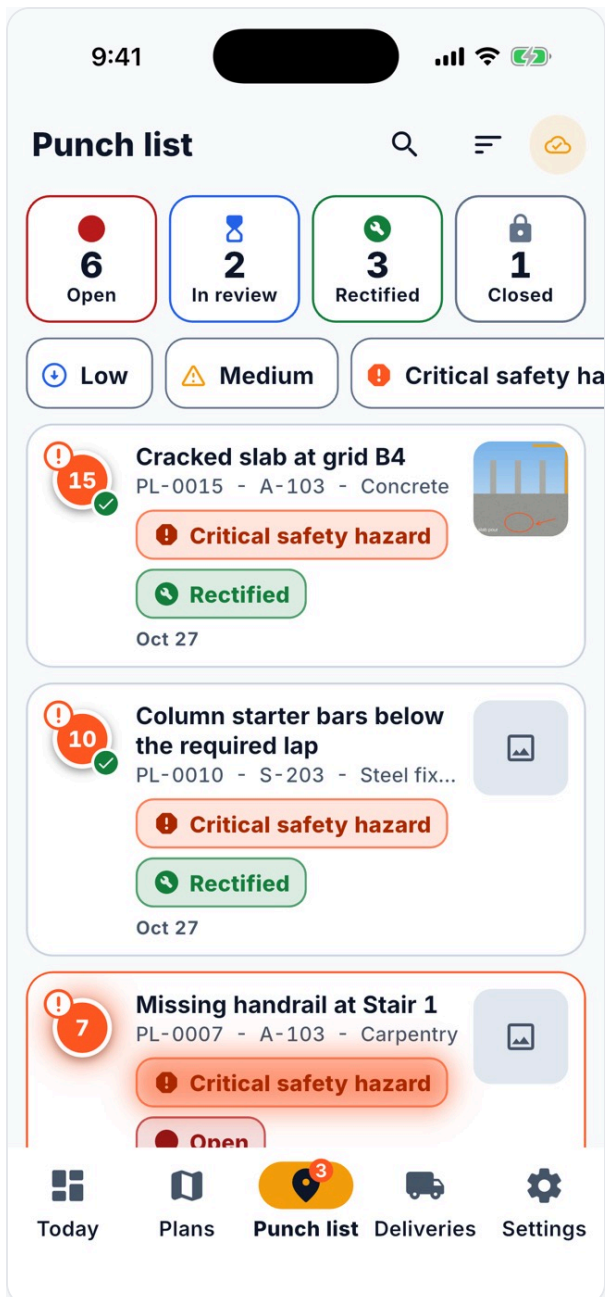
19. The punch list and its workflow

In plain words: Each pin goes through four statuses; Odoo enforces the rules, whether the change is made in the app or in Odoo:

Change	Who	Rule
Open → In review	Any jobsite user	The subcontractor is looking at it.
In review → Rectified	Foreman	At least one <i>after</i> photo is required.
Rectified → Closed	Project manager or quantity surveyor	The inspector accepts the work.
Rectified or Closed → Open	Project manager or quantity surveyor	Reopening needs a comment.



A pin with its photos, history and the next action.



The punch list with filters by status, severity, trade and subcontractor.

In plain words: A **critical** pin immediately creates a to-do for the project manager. In Odoo the **Punch list** is a kanban by status, a list, a graph and a pivot by subcontractor, and every pin has a chatter and a history.

Jobsite

Site

Reporting

Configuration

4

Atlas Build Co.

Punch list

Search...

Closed (1)

PL-0006

Low

Blockwork joint thickness above the specification

Masonry · Al Noor Masonry

Marina Heights Tower, Block A

Oct 24

In review (3)

PL-0013

Critical

Missing edge protection at the truck ramp

General labor · Atlas Direct Labor

Al Khail Logistics Park

Oct 28

PL-0005

Critical

Honeycombing at column C3

Concrete · Delta Concrete Works

Marina Heights Tower, Block A

Oct 28

PL-0003

Medium

Sleeve missing for the AC drain pipe

MEP · Gulf MEP Contractors

Marina Heights Tower, Block A

Nov 2

Open (8)

PL-0007

Critical

Missing handrail at Stair 1

Carpentry · Emirates Carpentry

Marina Heights Tower, Block A

Oct 28

PL-0002

Critical

Exposed rebar in the slab edge, unit 302

Steel fixers · Steelworks United

Marina Heights Tower, Block A

Oct 29

PL-0009

Medium

Water leak at the riser connection

MEP · Gulf MEP Contractors

Marina Heights Tower, Block A

Oct 26

PL-0011

Medium

Duct clashes with the beam on grid D

MEP · Gulf MEP Contractors

Marina Heights Tower, Block A

Nov 3

PL-0012

Medium

Loading dock slab level 30 mm low

Concrete · Delta Concrete Works

Al Khail Logistics Park

Nov 6

PL-0001

Low

Cracked wall tile at the entrance of unit 301

Finishing · Al Noor Masonry

Marina Heights Tower, Block A

Nov 5

PL-0008

Low

Floor box misplaced by 120 mm

MEP · Gulf MEP Contractors

Marina Heights Tower, Block A

Nov 8

PL-0014

Low

Wrong floor finish colour in the office block

Finishing · Al Noor Masonry

Al Khail Logistics Park

Nov 10

Rectified (2)

PL-0010

Critical

Column starter bars below the required lap

Steel fixers · Steelworks United

Marina Heights Tower, Block A

Oct 27

PL-0004

Medium

Door frame out of plumb, unit 304

Carpentry · Emirates Carpentry

Marina Heights Tower, Block A

Oct 31

The punch list in Odoo.

Jobsite
Site
Reporting
Configuration
Atlas Build Co.

New
Punch list
jobsite.defect.pin,5
1 / 1

Mark rectified
Open
In review
Rectified
Closed
Send message
Log note
Activity

PL-0005

Honeycombing at column C3

Site	Marina Heights Tower, Block A	Severity	Critical safety hazard
Drawing	Level 3 floor plan	Trade responsible	Concrete
Page	1	Subcontractor	Delta Concrete Works
X (0 to 1) ?	0.21000	Target date	Oct 28
Y (0 to 1) ?	0.78000	Reported By	Faisal Al Mazrouei
		Found in log	

Description
Photos
History

Found during the walk of the level. Photo attached.

Planned Activities

Today: "Critical safety hazard: Honeycombing at column C3" for Hana Qureshi

Found during the walk of the level. Photo attached.

Mark Done
Edit
Cancel

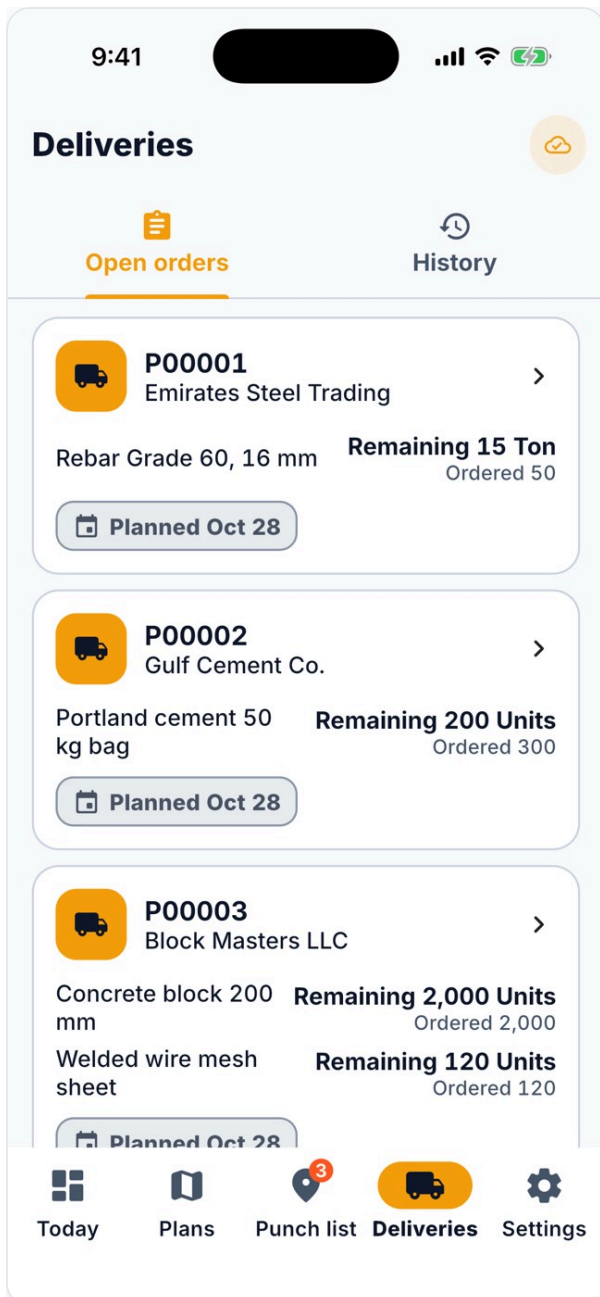
Today

OdooBot 7:39 PM
Punch list pin created

A pin in Odoo with its status buttons.

20. Receiving deliveries: the digital GRN

In plain words: When a truck arrives, open **Deliveries**: the app lists the **open purchase orders of the site** with the remaining quantities (downloaded in advance, so it works offline).



Open purchase orders of the site.

- 1 Pick the purchase order, then for each line type the quantity received now (and a rejected quantity with a reason and a condition if something is damaged or wrong); *Receive all* fills the remaining quantities.
- 2 The app warns about differences: **short** (a backorder will be created), **over-delivery** beyond the tolerance (blocked), nothing received.
- 3 Take the mandatory photos: the **delivery ticket** (weight ticket or bill of lading) and the **vehicle plate**. Scan the ticket number with the camera or read it with the on-device text recognition; the plate can be read the same way.

4

Optionally the driver signs. Press **Save receipt**.

9:41

P00003

✓ Receive all

 **Block Masters LLC**
Planned Oct 28

Concrete block 200 mm

Ordered
2,000 Units

Received before
0 Units

Remaining
2,000 Units

Received now

—

2000

+

Fill

✓ Complete: everything remaining is received.

Rejected

▼

Welded wire mesh sheet

Ordered
120 Units

Received before
0 Units

Remaining
120 Units

✓ Full delivery

Take a photo of the delivery ticket.

 **Save receipt**

Quantities with the discrepancy warning.

9:41

P00001
✔ Receive all

Ticket / bill of lading photo

Number plate photo

Material and damage photos

Receiver signature
Optional: the driver or receiver signs.

☐

Partial: backorder

Ticket and plate photos with the scanned ticket number.

In plain words: In Odoo the receipt of the purchase order is validated with the quantities counted; if some are short a **backorder** is created and stays on the purchase order. The delivery (GRN) keeps the lines, the photos (also attached to the receipt), the signature and the position, and the received value counts as material cost.

9:41



Receipt saved



Partial delivery

Something is short. A backorder is created in Odoo for the rest.

P00001 - Emirates Steel Trading



Goods received note: GRN/00005

Receipt: WH/IN/00007

Backorder: WH/IN/00010

✓ **Back to deliveries**

The result: complete or partial with the backorder.

Jobsite
Site
Reporting
Configuration
Atlas Build Co.

Deliveries
GRN/00001
1 / 1

Complete
Partial: backorder
Rejected
Send message
Log note
Activity

GRN/00001

Site
Purchase order
Vendor
Delivery ticket number
Vehicle plate

Marina Heights Tower, Block A
P00001
Emirates Steel Trading
DN-88213
DXB L 45219

Received At
Received By
Daily log
Receipts
Backorders
Received value

Oct 24, 7:39 PM
Faisal Al Mazrouei
WH/IN/00001
WH/IN/00006
\$ 14,400.00

Lines
Photos
Sign-off

Product	Ordered	Received be...	Received now	Rejected	Still expected	Condition	Reject Reason
Rebar Grade 60, 16 mm	50.00	0.00	20.00	0.00	30.00	Good	
			20.00	0.00			

Planned Activities
Today: "Short or rejected delivery GRN/00001" for Hana Qureshi
Mark Done
Edit
Cancel
Today
OdooBot 7:39 PM
Delivery received on site (GRN) created

The GRN in Odoo with its receipts.

21. Offline first and synchronisation

In plain words: Everything the foreman does is written to the phone's database first and to an **outbox** with an unchangeable sequence number and a unique ID. The app sends the outbox in order whenever there is a connection (and in the background), compressing photos first; Odoo applies each operation **once**, so a retry never creates a second pin or a second delivery.

Situation	What happens
Basement without signal	Work as usual; the app shows <i>offline</i> and the number of waiting items.
Back online	The outbox is sent in order; photos follow their parent record; the status chip turns green.
The log was already submitted	Odoo answers <i>locked</i> ; the Sync issues screen explains it.
A delivery for an order with nothing to receive, an over-delivery, a missing photo	The operation is refused with a plain message in <i>Sync issues</i> ; retry after fixing, or discard (with confirmation).
Two foremen drop pins at once	Both are saved; each pin has its own ID.

9:41

Marina Heights Tower, B...

MHT-A - Switch site

2

On site

SHIFT STATUS

In progress

Started at 21:38

Not synced yet

Weather

Automatic

Sunny

30°C

0 mm

7 km/h

Dry

Headcount

55

on site today

440 man-hours

Concrete 13

Steel fixers 10

Masonry 8

MEP 7

Carpentry 5

General labor 12

Submit shift

Today

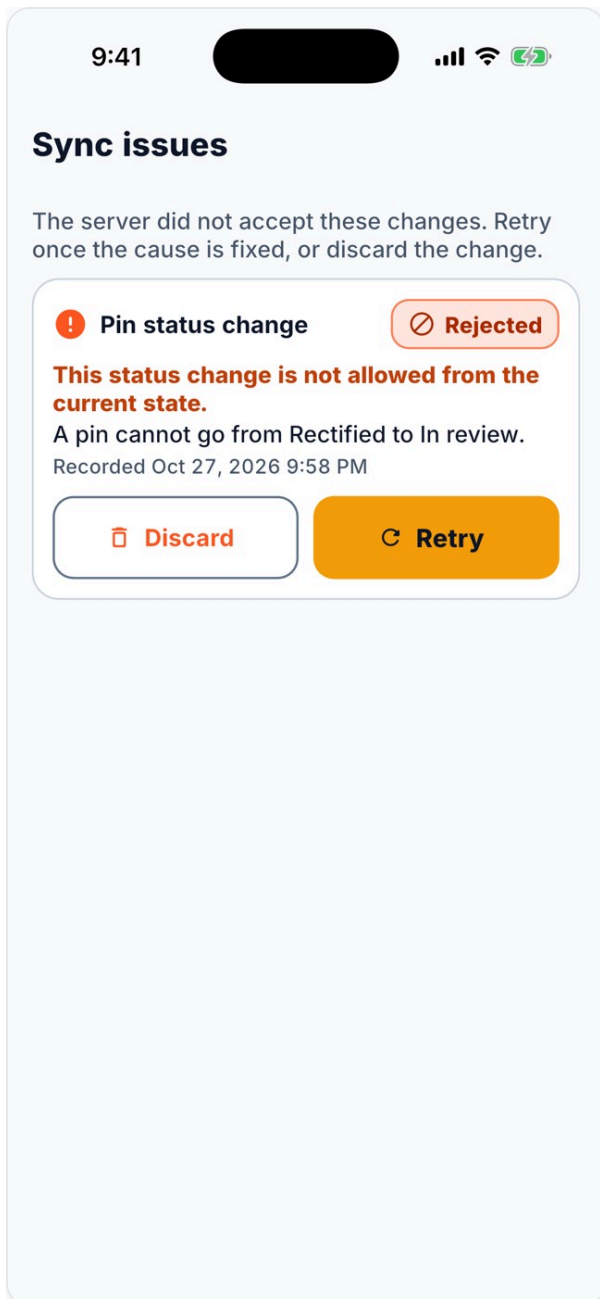
Plans

Punch list

Deliveries

Settings

Offline: the queue of waiting items.



Sync issues with Retry and Discard.

22. Approving logs and the daily log report

In plain words: The project manager opens **Jobsite** → **Site** → **To approve** (or does it in the app), checks the log and presses **Approve**, or **Reject** with a reason: the foreman gets a to-do, the costs of the log are removed, he corrects and submits again. Logs submitted outside the geofence carry a to-do for the manager.

Jobsite Site Reporting Configuration												Atlas Build Co.
New Daily logs		Search...						1-24 / 24				
☐	Name	Date	Site	Foreman	Weather	Headco...	Man Hours	Equipment ...	Delay Hours	Labor Cost	Equipment Co...	State
☐	DL/00024	Oct 26	Al Khail Logistics Park	F Faisal Al Mazrouei	Rain	21	180.00	20.00	1.50	\$ 2,682.00	\$ 1,178.60	Submitted
☐	DL/00023	Oct 26	Marina Heights Tower, Block A	F Faisal Al Mazrouei	Windy	55	440.00	15.50	0.00	\$ 7,824.00	\$ 1,189.20	Submitted
☐	DL/00022	Oct 24	Al Khail Logistics Park	F Faisal Al Mazrouei	Sunny	18	144.00	19.00	0.00	\$ 2,208.00	\$ 1,077.45	Rejected
☐	DL/00021	Oct 24	Marina Heights Tower, Block A	F Faisal Al Mazrouei	Sunny	54	432.00	15.00	0.00	\$ 7,572.00	\$ 1,179.40	Approved
☐	DL/00020	Oct 23	Al Khail Logistics Park	O Omar Haddad	Cloudy	21	168.00	19.00	0.00	\$ 2,560.00	\$ 1,158.05	Approved
☐	DL/00019	Oct 23	Marina Heights Tower, Block A	F Faisal Al Mazrouei	Extreme heat	55	462.00	16.00	2.00	\$ 8,326.50	\$ 1,234.95	Approved
☐	DL/00018	Oct 22	Al Khail Logistics Park	F Faisal Al Mazrouei	Windy	20	160.00	19.50	0.00	\$ 2,368.00	\$ 1,178.40	Approved
☐	DL/00017	Oct 22	Marina Heights Tower, Block A	F Faisal Al Mazrouei	Sunny	54	481.00	22.00	0.00	\$ 9,256.00	\$ 1,908.35	Approved
☐	DL/00016	Oct 21	Al Khail Logistics Park	O Omar Haddad	Sunny	20	176.00	19.00	0.00	\$ 2,744.00	\$ 1,142.70	Approved
☐	DL/00015	Oct 21	Marina Heights Tower, Block A	F Faisal Al Mazrouei	Cloudy	48	384.00	15.50	0.00	\$ 6,940.00	\$ 1,259.20	Approved
☐	DL/00014	Oct 20	Al Khail Logistics Park	F Faisal Al Mazrouei	Extreme heat	19	162.00	19.50	0.00	\$ 2,343.00	\$ 1,138.10	Approved
☐	DL/00013	Oct 20	Marina Heights Tower, Block A	F Faisal Al Mazrouei	Rain	48	412.00	21.50	2.00	\$ 7,927.00	\$ 1,809.85	Approved
☐	DL/00012	Oct 19	Al Khail Logistics Park	O Omar Haddad	Rain	24	208.00	19.00	1.50	\$ 3,208.00	\$ 1,102.40	Approved
☐	DL/00011	Oct 19	Marina Heights Tower, Block A	F Faisal Al Mazrouei	Rain	53	453.00	16.50	2.00	\$ 8,367.50	\$ 1,339.95	Approved
☐	DL/00010	Oct 17	Al Khail Logistics Park	O Omar Haddad	Sunny	22	192.00	19.00	0.00	\$ 2,904.00	\$ 1,102.40	Approved
☐	DL/00009	Oct 17	Marina Heights Tower, Block A	F Faisal Al Mazrouei	Sunny	56	502.00	16.00	0.00	\$ 9,544.00	\$ 1,269.95	Approved
☐	DL/00008	Oct 16	Al Khail Logistics Park	F Faisal Al Mazrouei	Sunny	17	136.00	20.50	0.00	\$ 1,984.00	\$ 1,239.25	Approved
☐	DL/00007	Oct 16	Marina Heights Tower, Block A	F Faisal Al Mazrouei	Windy	52	423.00	15.00	0.00	\$ 7,921.00	\$ 1,249.40	Approved
☐	DL/00006	Oct 15	Al Khail Logistics Park	O Omar Haddad	Rain	20	160.00	18.50	1.50	\$ 2,352.00	\$ 1,092.60	Approved
☐	DL/00005	Oct 15	Marina Heights Tower, Block A	F Faisal Al Mazrouei	Windy	52	434.00	21.00	0.00	\$ 7,951.50	\$ 1,924.40	Approved
☐	DL/00004	Oct 14	Al Khail Logistics Park	F Faisal Al Mazrouei	Windy	17	150.00	18.50	0.00	\$ 2,397.00	\$ 1,092.60	Approved

Daily logs with man-hours, delay hours and (for managers) costs.

Jobsite
Site
Reporting
Configuration
Atlas Build Co.

New
Daily logs
DL/00021
Pins
0
Deliveries
0
1 / 1

Reject
Back to draft
Print report
Draft
Submitted
Approved
Send message
Log note
Activity

DL/00021

Site
Marina Heights Tower, Block A

Date
Oct 24

Foreman
Faisal Al Mazrouei

Shift Start
07:00

Shift End
17:00

WEATHER

Weather
Sunny

Temperature (°C)
29.00

Precipitation (mm)
0.00

Wind (km/h)
17.00

Ground
Dry

Weather source
Weather service

TOTALS

Headcount
54

Man Hours
432.00

Equipment Hours
15.00

Fuel
72.00

Delay Hours
0.00

COSTS

Labor Cost
\$ 7,572.00

Equipment Cost
\$ 1,179.40

Manpower
Equipment
Delays
Notes
Photos
Sign-off
Cost lines

Subcontract...	Trade	Headcou...	Regular hou...	Overtime ho...	Man Hours	Hourly Rate	Cost	Notes	
Delta Concr...	Concrete	12	8.00	0.00	96.00	\$ 21.00	\$ 2,016.00		
Steelworks ...	Steel fixers	9	8.00	0.00	72.00	\$ 18.50	\$ 1,332.00		
Al Noor Mas...	Masonry	9	8.00	0.00	72.00	\$ 16.00	\$ 1,152.00		
Gulf MEP Co...	MEP	6	8.00	0.00	48.00	\$ 26.00	\$ 1,248.00		
Emirates Car...	Carpentry	6	8.00	0.00	48.00	\$ 18.00	\$ 864.00		
Atlas Direct ...	General la...	12	8.00	0.00	96.00	\$ 10.00	\$ 960.00		
Add a line									
		54			432.00		\$ 7,572.00		

Today

Hana Qureshi
7:39 PM
Approved by Hana Qureshi.

Faisal Al Mazrouei
7:39 PM
Submitted by Faisal Al Mazrouei.

OdooBot
7:39 PM
Daily construction log created

A log in Odoo: weather, crews with rates, totals and costs.

In plain words: **Print report** makes the daily log PDF: weather, crews, machines, delays, deliveries, pins found, photos, the foreman's signature and the approval, ready to send to the client.



Atlas Build Co.
Business Bay, Tower 4, Office
1204
Dubai
United Arab Emirates

Daily construction log DL/00021

Site: Marina Heights Tower, Block A
Date: 2026-10-24
Foreman: Faisal Al Mazrouei
Shift: 07:00 - 17:00
Status: Approved
Reference: MHT-A

Weather

Sunny, 29.0 °C, precipitation 0.0 mm, wind 17.0 km/h, ground: Dry

Manpower

Subcontractor	Trade	Workers	Regular h	Overtime h	Man- hours
Delta Concrete Works	Concrete	12	8.0	0.0	96.0
Steelworks United	Steel fixers	9	8.0	0.0	72.0
Al Noor Masonry	Masonry	9	8.0	0.0	72.0
Gulf MEP Contractors	MEP	6	8.0	0.0	48.0
Emirates Carpentry	Carpentry	6	8.0	0.0	48.0
Atlas Direct Labor	General labor	12	8.0	0.0	96.0
Total		54			432.0

Equipment

Machine	Meter start	Meter end	Active h	Idle h	Breakdown h	Fuel
Tower crane	964.0	971.5	7.0	0.5	0.0	0.0 L

The daily log report.

23. Reports

In plain words: **Jobsite → Reporting** has the *Budget versus actual* list of all sites and the *Cost analysis* pivot and graph by site, cost type, partner and week. Daily logs have a calendar, a pivot of man-hours by site and week and a graph; the punch list has a graph by trade and status and a pivot by subcontractor.

JobsiteSiteReportingConfiguration

Atlas Build Co.

Cost analysis

Measures

	Total			
	Equipment	Labor	Material (receipts)	
	Cost	Cost	Cost	Cost
Total	30,115.60	125,334.50	38,490.00	193,940.10
Al Khail Logistics Park	12,541.90	28,019.00	11,520.00	52,080.90
Marina Heights Tower, Block A	17,573.70	97,315.50	26,970.00	141,859.20

Cost analysis pivot.

JobsiteSiteReportingConfiguration

Atlas Build Co.

Daily logs

←→MonthTodayOctober 2026

SUN	MON	TUE	WED	THU	FRI	SAT
27	28	29	30	1	2	3
4	5	6	7	8	9	10
11	12	13 DL/00001 DL/00002	14 DL/00003 DL/00004	15 DL/00005 DL/00006	16 DL/00007 DL/00008	17 DL/00009 DL/00010
18	19 DL/00011 DL/00012	20 DL/00013 DL/00014	21 DL/00015 DL/00016	22 DL/00017 DL/00018	23 DL/00019 DL/00020	24 DL/00021 DL/00022
25	26 DL/00023 DL/00024	27	28	29	30	31

<>October 2026

S	M	T	W	T	F	S
27	28	29	30	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
1	2	3	4	5	6	7

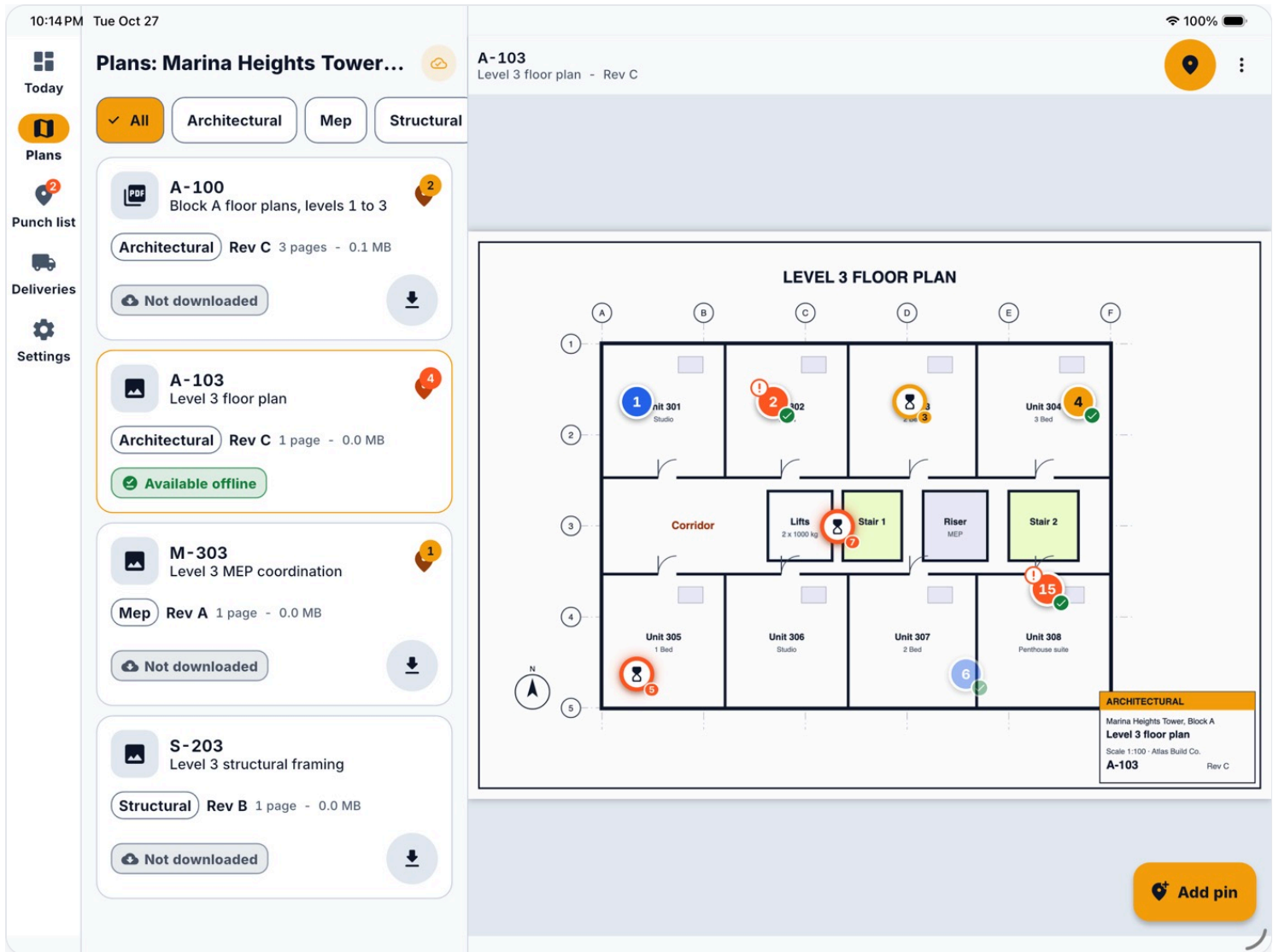
Daily logs in the calendar.



Managers see the budget versus actual in the app too.

24. Tablets

In plain words: On a tablet (about 8 inch and up) the app uses two panes: the list on the left and the drawing or the detail on the right, so you can read the punch list while the plan is open.



The plan viewer on a tablet.

10:14 PM Tue Oct 27

Today

Plans

Punch list

Deliveries

Settings

Punch list

4

Open

3

In review

4

Rectified

1

Closed

Low

Medium

Critical safety hazard

15

Cracked slab at grid B4

PL-0015 - A-103 - Concrete

Critical safety hazard

Rectified

Oct 27

10

Column starter bars below the required lap

PL-0010 - S-203 - Steel fixers

Critical safety hazard

Rectified

Oct 27

7

Missing handrail at Stair 1

PL-0007 - A-103 - Carpentry

Critical safety hazard

In review

2026-10-28

Oct 27

6

Honeycombing at column C3

PL-0005 - A-103 - Concrete

Critical safety hazard

In review

2026-10-28

Oct 27

A-103

Level 3 floor plan - Rev C

St 302

1 Bed

Unit 303

2 Bed

Lifts

2 x 1000 kg

Stair 1

Unit 306

Studio

Unit 307

2 Bed

Add pin

PL-0007

In review

Missing handrail at Stair 1

Critical safety hazard

Carpentry

Emirates Carpentry

Due 2026-10-28

Found during the walk of the level. Photo attached.

Reported by Faisal Al Mazrouei - Oct 27, 2026 7:05 PM - A-103 p.1

Before

!

Move to

Mark as Rectified

History

Open

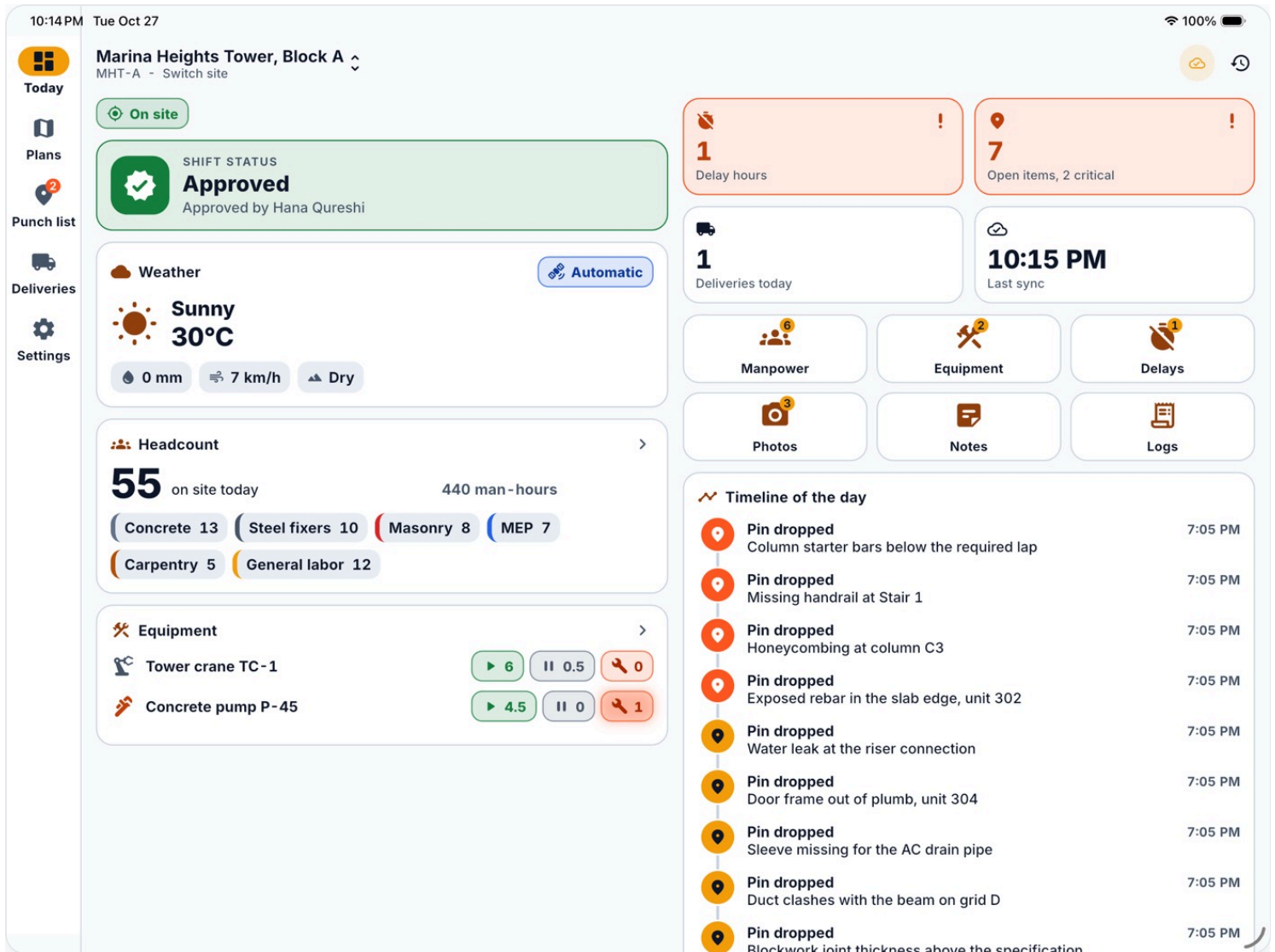
OdooBot - Oct 27, 2026 7:05 PM

Pin dropped

Open > In review

Faisal Al Mazrouei - Oct 27, 2026 9:57 PM

The punch list beside the plan.



The dashboard on a tablet.

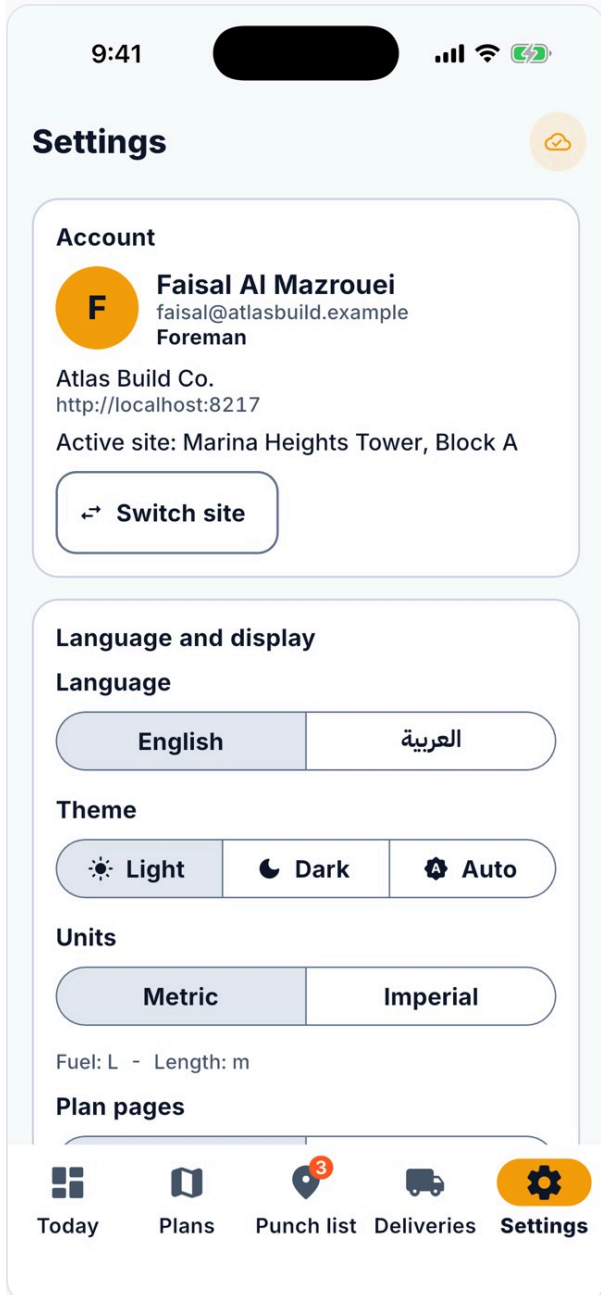
25. Build and publish the app

In plain words: Unzip `flutter-app-source.zip`. The README in the folder is the full guide; the short version:

- 1 Install Flutter 3.41 or newer (`flutter doctor` must be green for your platforms).
- 2 Run the setup script with your server address and your package name; it also sets the app name and the accent colour:

```
dart run tools/setup.dart --url https://odoo.example.com --package com.yourcompany.
```

- 3 Replace the placeholder icon in `assets/branding` and run `flutter pub get`.
- 4 Android: `flutter build apk --release` (or `appbundle` for Google Play). iPhone and iPad: `flutter build ios --release`, then archive in Xcode.
- 5 Install the app on the phones. The language (English or Arabic) and the theme (light, dark, automatic) are in the app settings.



App settings: language, theme, units, storage.



The dashboard in Arabic (right to left).



The plan viewer in Arabic.

Important: Android release builds need an https address. For a closed LAN you can enable local http as described in the app README.

26. API for developers

In plain words: Everything the app does is available through a small REST API (`/api/jobsite/v1`); the contract is in `documentation/API.md`. Operations are idempotent

and numbered, so you can also write your own client or import data.

```
# is the server reachable?
curl https://odoo.example.com/api/jobsite/v1/ping
# {"ok": true, "api_version": 1, "server_time": "2026-10-27T05:00:00Z"}

# sign in (returns a token, the roles and the sites of the user)
curl -X POST https://odoo.example.com/api/jobsite/v1/auth/login -H 'Content-Type: applica
  -d '{"login": "faisal@example.com", "password": "...", "device": {"id": "phone-1", "pla

# drop a punch-list pin (idempotent: the same operation uuid is applied once; x and y are
curl -X POST https://odoo.example.com/api/jobsite/v1/op/pin_create -H "Authorization: Bea
  -d '{"uuid": "4c1f...", "pin": {"uuid": "a9d2...", "project_id": 2, "plan_id": 3, "page
    "title": "Exposed rebar in the slab edge", "severity": "critical", "trade_id": 4}}

# receive a delivery against a purchase order (short quantities create a backorder in Inv
curl -X POST https://odoo.example.com/api/jobsite/v1/op/delivery_receive -H "Authorizatio
  -d '{"uuid": "77aa...", "delivery": {"uuid": "b1c3...", "project_id": 2, "purchase_id":
    "lines": [{"po_line_id": 21, "received": 20}]}, "photos": [{"kind": "ticket", "ima
```

Call	Use
POST /auth/login	Token, roles and sites.
GET /bootstrap	Trades, subcontractors, equipment, plans, pins, logs, deliveries, settings.
GET /changes?cursor=	Only what changed since the last sync.
POST /sync , POST /op/<type>	An ordered batch of up to 100 operations or a single one (log_upsert, log_submit, pin_create, pin_status, photo_add, delivery_receive, ...).
GET /plans/<id>/file	The drawing with an ETag (its SHA-256).
GET /projects/<id>/purchase-lines	Open purchase lines of the site.
GET /projects/<id>/budget	Budget versus actual (managers).

27. Update, backup and uninstall

In plain words: Replace the module folder with the new version, restart Odoo and run `-u taqnix_construction_jobstite` . Logs, pins, deliveries and settings are kept. Update the app by rebuilding from the new source; the API is versioned (`/v1`) and older apps keep working with newer modules within the same version.

In plain words: Back up the database and the filestore as usual (drawings and photos are in the filestore). Uninstalling the module removes its records; the analytic cost lines it created, the purchase orders, receipts and invoices stay in Odoo.

28. Troubleshooting

Problem	Cause and fix
The app says no site is assigned	Add the user to <i>Foremen</i> on the project (Jobsite tab) and make sure <i>Jobsite reporting</i> is ticked.
A foreman cannot submit: outside the site	The site enforces the geofence: check the coordinates and radius on the project, or give a reason.
The log shows costs 0	Costs are posted when the log is submitted (or approved, see the settings) and need a rate: set the trade default rate or a rate card.
Material cost is 0	Tick the site on the purchase order (field <i>Jobsite</i>) and validate receipts; or switch the material basis to vendor bills.
No open purchase orders in the app	The purchase order must be confirmed, marked with the site and still have something to receive in Inventory.
A delivery is refused: missing photo	Take the ticket and the plate photos, or switch those requirements off in the settings.
A pin cannot be set to rectified	Add an <i>after</i> photo first.
The plan does not appear in Odoo's viewer	Upload a picture of the first page in the <i>Preview</i> field when the drawing is a PDF; the app shows the PDF itself.
Weather is not filled	The phone has no connection: type it. The weather service needs the position of the site.
The app cannot reach an http server	Android release builds need https: use https, or enable local http for a closed LAN.

29. Support

In plain words: Updates are free. Installation help and bug fixes are included for 6 months.

Installation help and bug fixes are included for 6 months, with lifetime updates. Contact us through the marketplace page where you bought the module or write to **support@taqnix.com** with your Odoo version and a screenshot.

Changelog

1.0.0 – Initial release

- Odoo module: sites with geofence, foremen and budget; daily logs with weather, delays, manpower by subcontractor and trade (regular and overtime), equipment meters, idle, breakdown and fuel, photos, signature and approval; trades and rate cards; drawings (PDF, pictures) with a punch list of pins (normalized positions, severity, trade, workflow open / in review / rectified / closed); deliveries as digital GRN against purchase orders with receipt validation and backorders; budget versus actual with cost performance index; reports; REST API with idempotent offline sync
- Flutter source of the offline jobsite app (Drift database and outbox, blueprint viewer, daily log, punch list, delivery inspection with scanner and text recognition, English and Arabic, light and dark, phone and tablet)