



KOPE <> Saint Gobain InteWall

Our Background  KOPE



We are your platform for Productization.

- A team of experts spanning the UK, US, and Europe, with our HQ in London.
- Extensive experience in design & construction technology, with a team from industry.
- We have partnered with some of the most innovative construction companies around the world.
- There's a global industry push towards Industrialised Construction. Continuing in the same way will undermine our society's ability to deliver the critical, social and physical infrastructure we need.



Our History



The UK's leading Computational BIM Consultancy, with a focus on solving workflows in the construction industry.

Acquired in 2018.



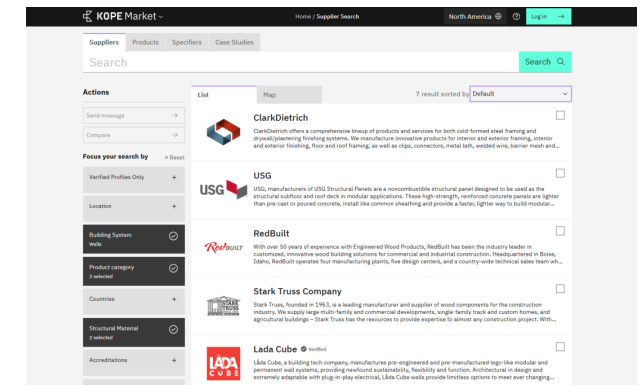
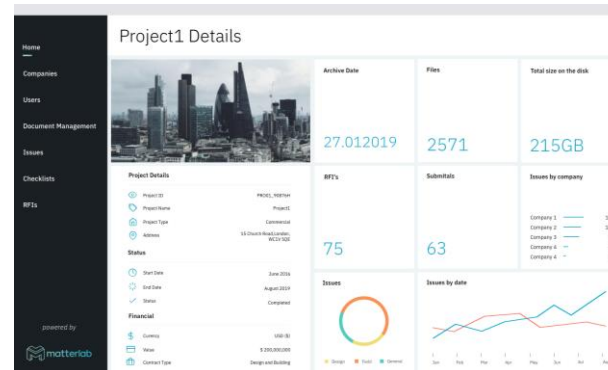
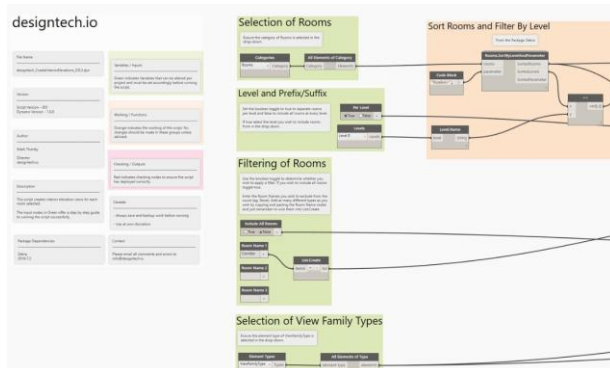
An AEC Product Consultancy that helped enterprise customers turn workflows into software.

Transitioned into KOPE



A platform for configuring building systems utilizing our computational skills.

Invested in by Autodesk, Saint Gobain, Barton Malow and Symetri.



Where we started:

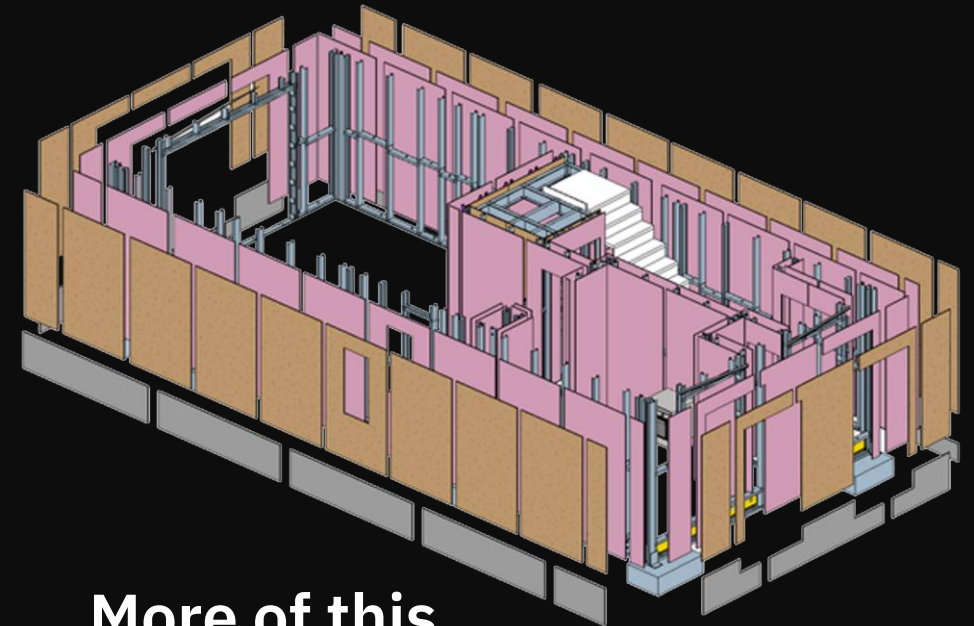
We worked with a UK based offsite supplier, looking to double production capacity.

Design changes took up to 5 months to implement and required up to 5000 drawings to be updated.

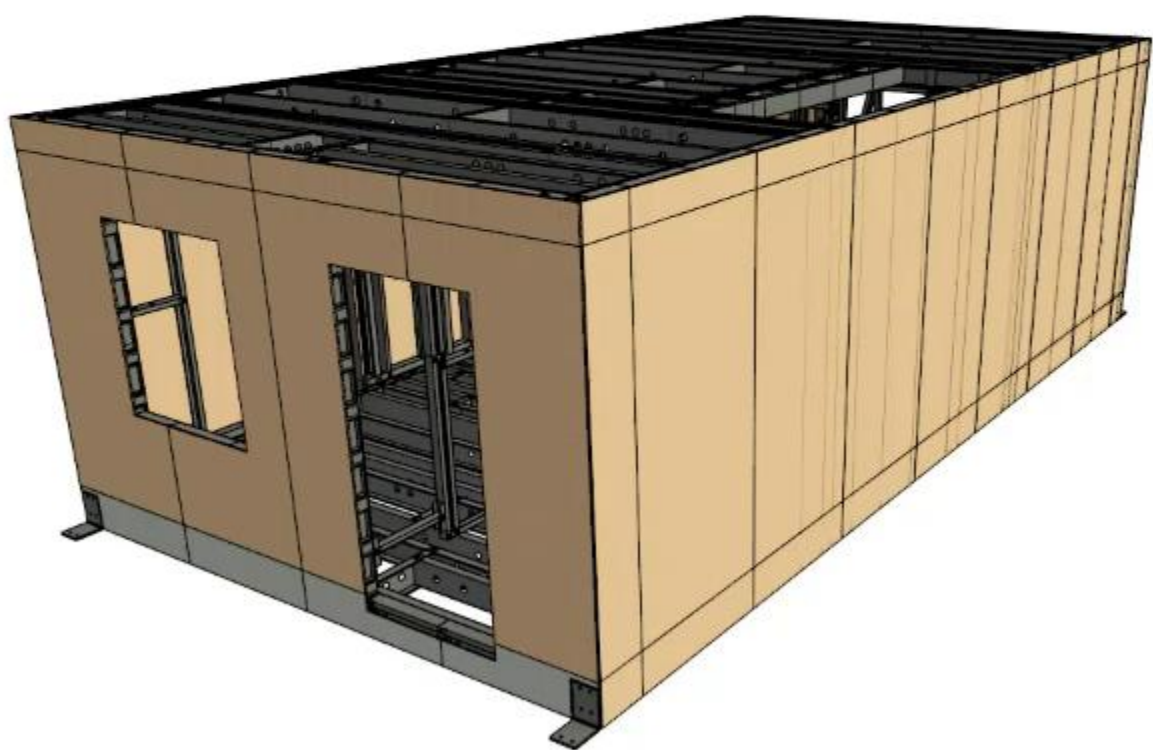


Less of this...

KOPE delivered a system-based solution to take validated architectural design models to fabrication-ready in less than 5 minutes



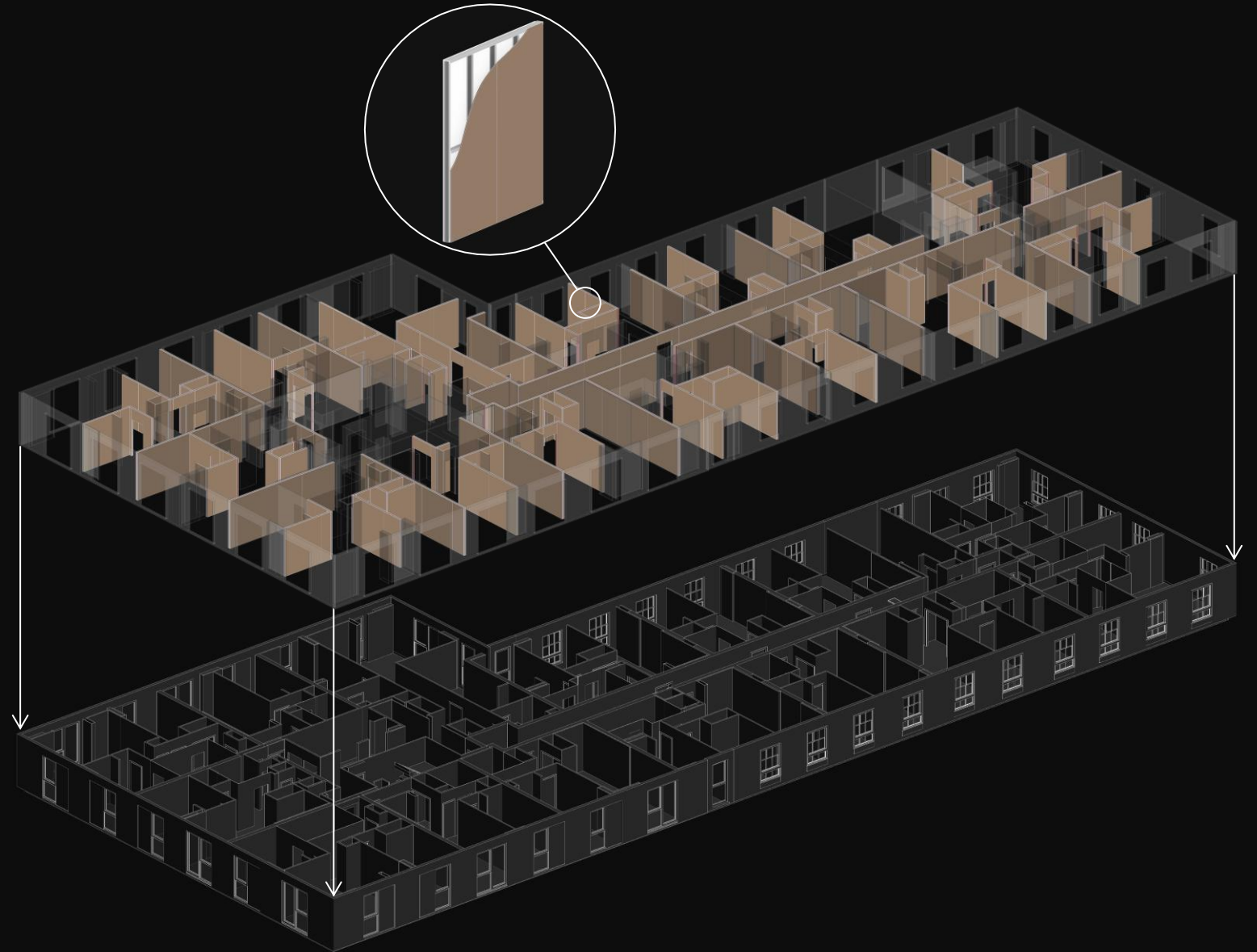
More of this.





What if we could do this
for all products...

Introducing KOPE, The
construction industry's
most advanced **Product
Configurator**





KOPE Configurator

KOPE instantly configures and optimizes internal partition systems, saving time and effort when designing, detailing, pricing and fabricating projects

Products into Projects™

The screenshot displays the KOPE Configurator interface for a project named "Falmouth Academy". The central 3D view shows a complex arrangement of blue partition walls. The left-hand panel is divided into sections for "Design Options", "Products", and "Drywall Single Frame". The "Products" section lists "Lattice Plank System" (Supplier: LatCore Ltd, Status: Optimized) and "ThermoSIP System" (Supplier: GreenSIPs, Status: Applied). The "Drywall Single Frame" section lists "Wallplan" (Supplier: Wallplan, Status: Ready). The right-hand panel shows "Outputs" and "Properties" for a selected window element, including GUID, File Format (IFC), Common Type (WINDOW), and Costing Breakdown. Below the 3D view is a "Models" table with columns for Name, Type Name, Product, Element Set, Is Standard, and Level. The table lists various wall and frame elements. At the bottom, a green bar indicates "Apply products" and "Total 4925 items".

Name	Type Name	Product	Element Set	Is Standard	Level
Basic Wall:Wall-Fnd_3...	WA-EXT-01-A	Drywall Double Frame	Party Walls	Standard	Level 0
Basic Wall:Wall-Fnd_3...	WA-EXT-01-A	Drywall Double Frame	Party Walls	Standard	Level 0
Basic Wall:Wall-Fnd_3...	WA-EXT-01-B12	Drywall Single Frame	Risers	Custom	Level 0
Basic Wall:Wall-Fnd_3...	WA-EXT-01-B13	Drywall Single Frame	Risers	Standard	Level 0
Basic Wall:Wall-Fnd_3...	WA-EXT-01-A	Drywall Double Frame	Party Walls	Standard	Level 0M
Basic Wall:Wall-Fnd_3...	WA-EXT-01-D	Drywall Double Frame	Party Walls	Standard	Level 1
Basic Wall:Wall-Fnd_3...	WA-EXT-01-F	Drywall Double Frame	Corridors	Custom	Level 1

KOPE Overview  **KOPE**

The Platform for Productization.

KOPE MARKET

The screenshot shows the KOPE Market website interface. At the top, there's a navigation bar with 'KOPE Market', 'Home / Supplier Search', 'North America', and a 'Log in' button. Below the navigation, there are tabs for 'Suppliers', 'Products', 'Specifiers', and 'Case Studies'. A search bar is prominently displayed with a 'Search' button. On the left side, there's a sidebar with 'Actions' (Send message, Compare) and 'Focus your search by' filters including 'Verified Profiles Only', 'Location', 'Building System', 'Product category', 'Countries', 'Structural Material', and 'Accreditations'. The main content area shows a list of 7 results, sorted by 'Default'. The first few results are: ClarkDietrich, USG, RedBuilt, Stark Truss Company, and Lada Cube. Each result includes a logo, company name, and a brief description of their products and services.

KOPE CONFIGURATOR

The screenshot shows the KOPE Configurator software interface. At the top, there's a navigation bar with 'KOPE', 'Home / Falmouth Academy', and a 'Log in' button. The main interface is divided into several sections. On the left, there's a 'Current Study' section for 'Etopia (Option 5)', a 'Supply Chain' section for 'SIPs Products', and a 'Products' section with categories like 'Internal Walls', 'External Walls', and 'Upper Floors'. In the center, there's a 3D architectural model of a building structure, showing the internal layout and walls. On the right, there's an 'Outputs' section with a table of metrics for 'ADEPT Wall Cassette', including 'Cassette Placed', 'Cassette types', 'Solid cassettes', 'Window cassettes', 'Cassette standardization', and 'Standard cassettes'. At the bottom, there's a 'Save Result' button and a 'Settings' icon.

Products

Into Projects

KOPE is used by our partners to:



Saint-Gobain

Ensure suitability at the design stage and take outputs through to fabrication & onto the jobsite



British Gypsum

Minimise board waste and utilise a higher % of offcuts in nearing locations



Laing O'Rourke

Automate and optimise precast floor plank placement to minimise moulds required

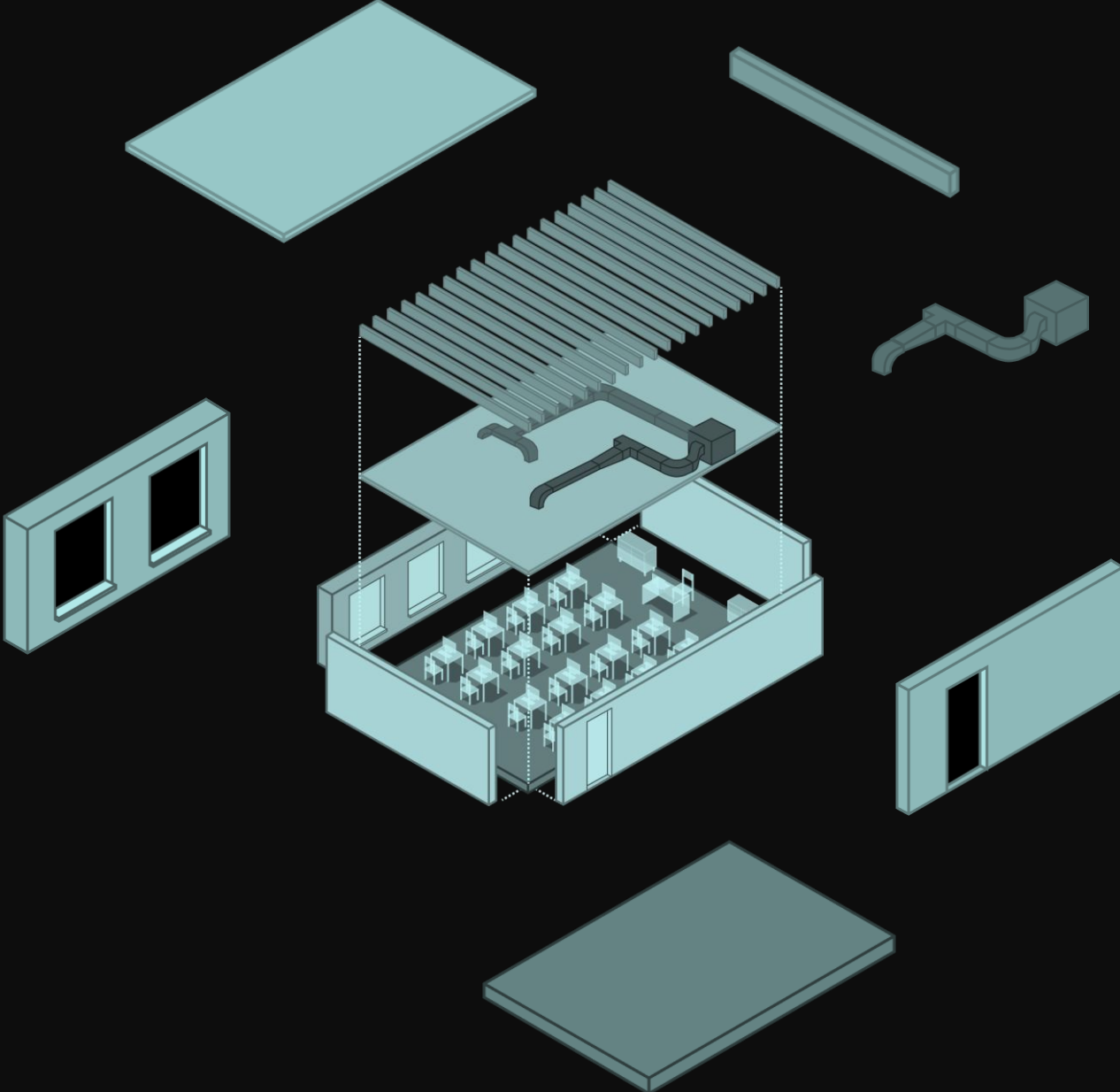


Barton Malow

Generate metal studwork and boarding instantly for internal partition system layouts

To make this work, we have to understand a wide range of product systems.

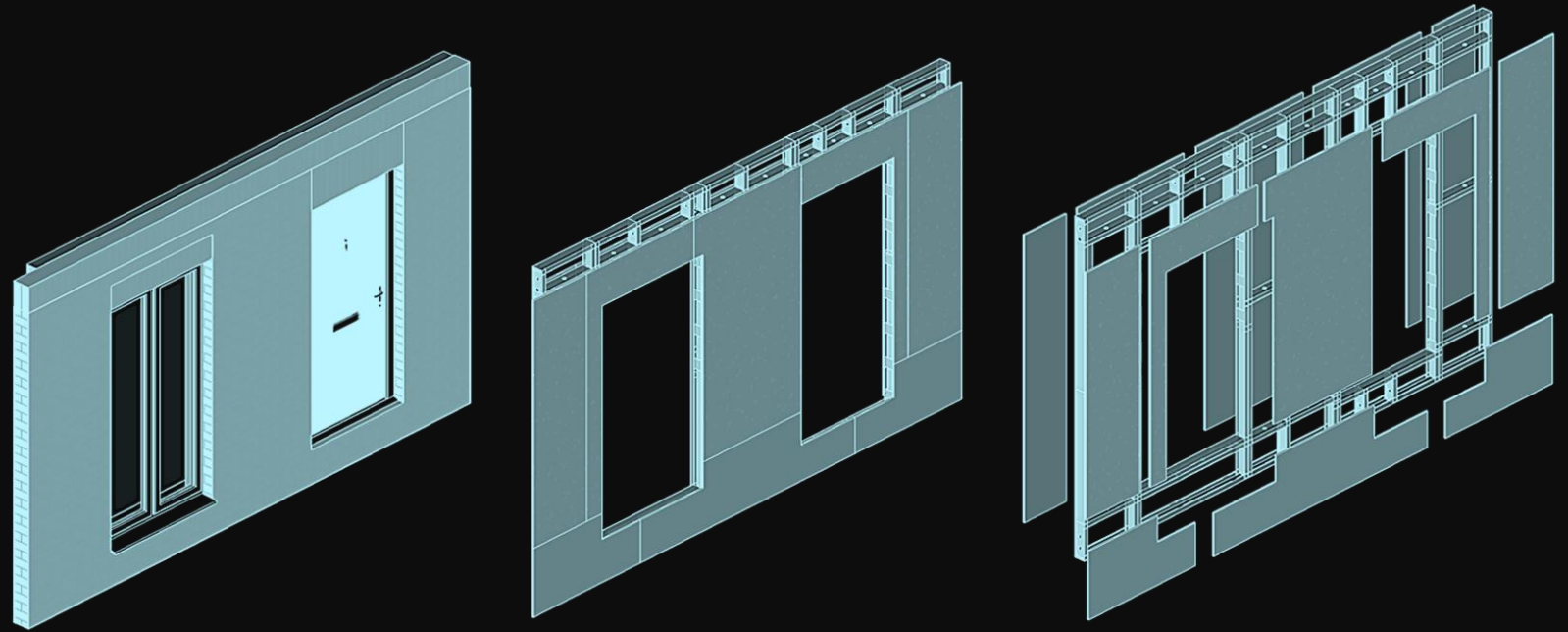
To begin, we have focused on walls and the many ways they can be made.



Systems-based approach

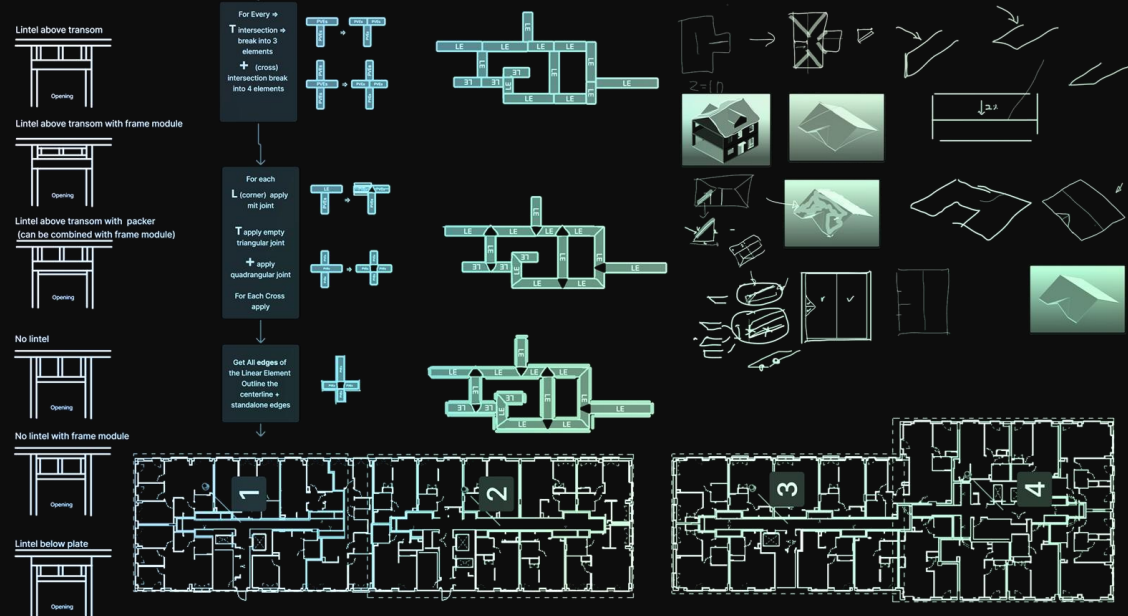
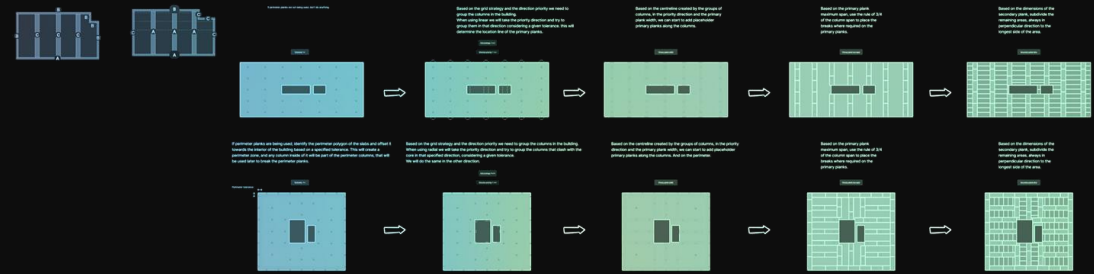
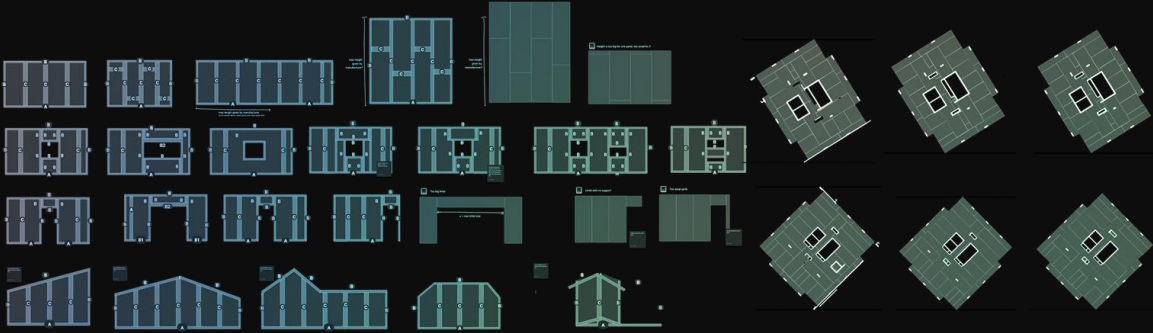
Describe a system by its:

- Rules & constraints
- Interfaces & relationships to other systems



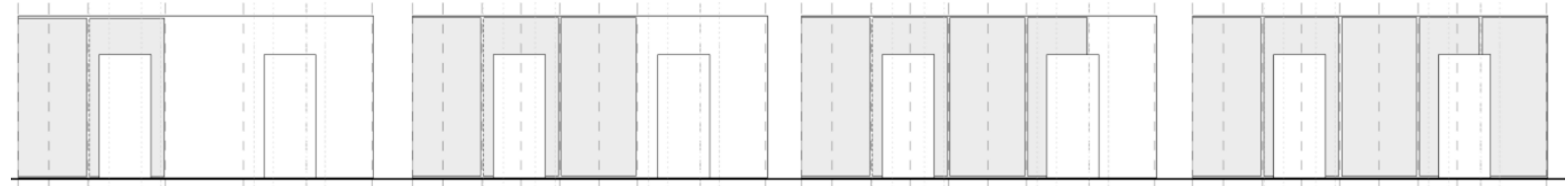
We take the underlying rules of how different products behave;

- How they are made,
- How they are assembled,
- How they perform.

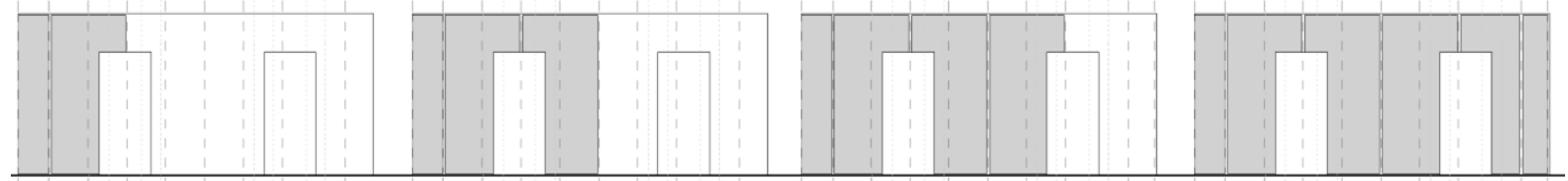


Leverage rules & constraints to automatically configure wall assemblies

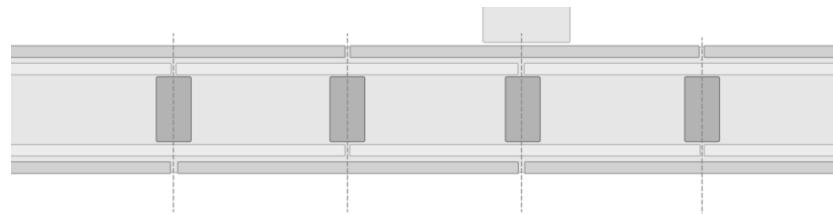
Build Sequence



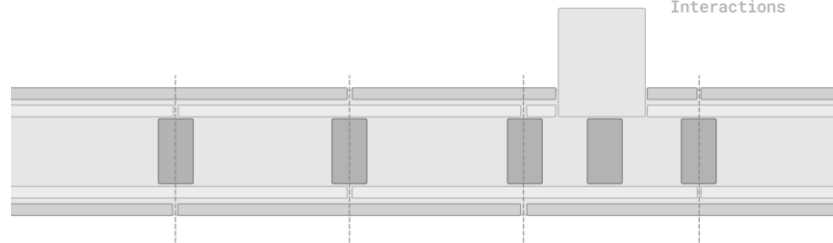
Build sequences



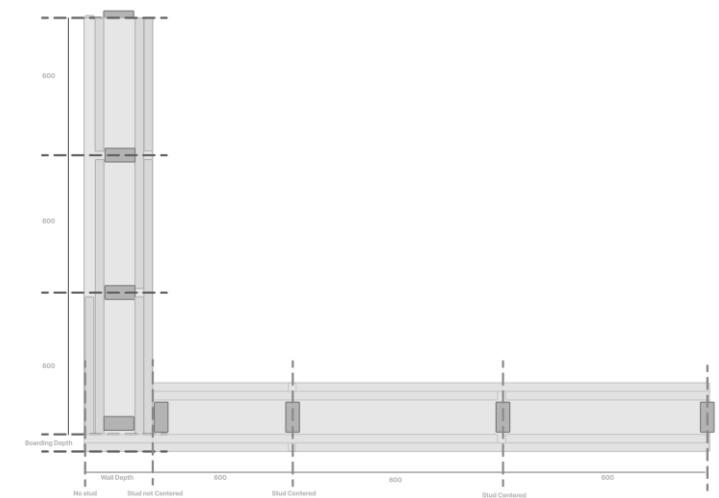
Interactions



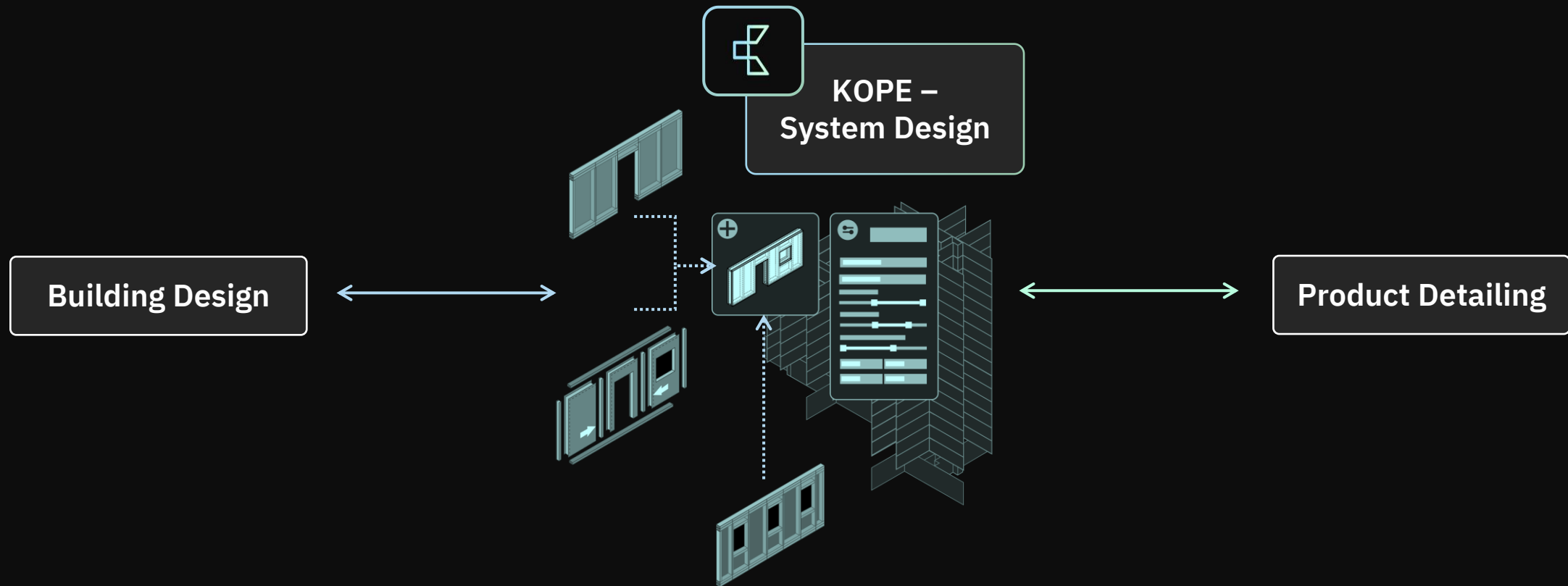
Interactions



Corner Adjustments & Boarding Variation

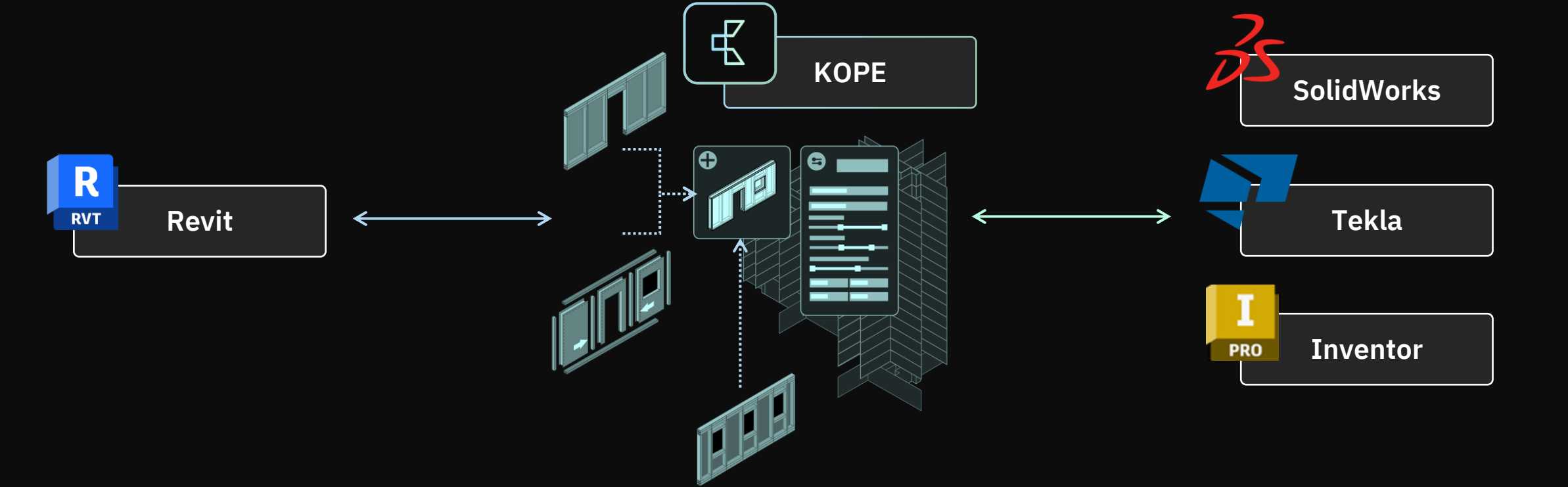


Delivering a connected workflow



Seamless connectivity between design and detailing tools

Delivering a connected workflow



Building Design

System Design

Product Detailing



Seamless connectivity between design and detailing tools

Delivering a connected workflow



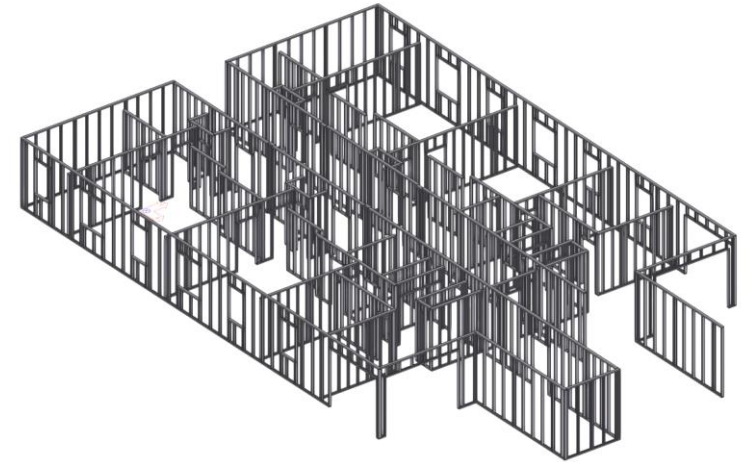
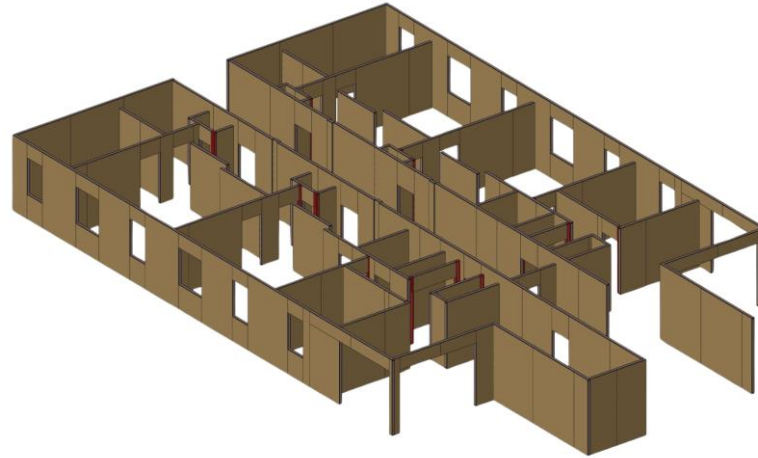
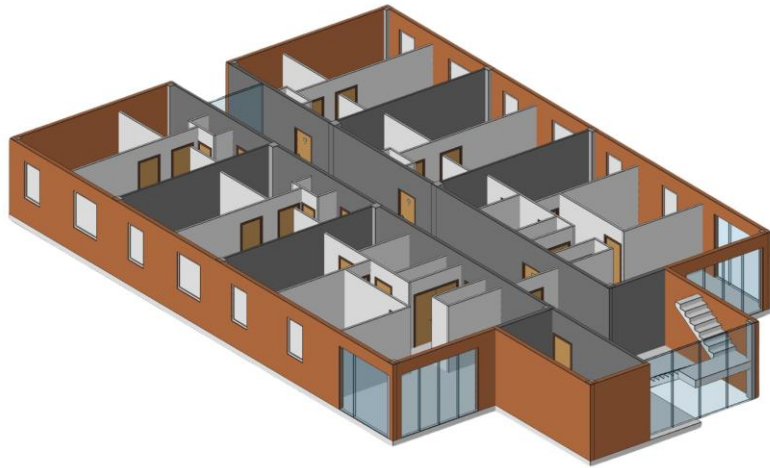
Revit



KOPE



Tekla



Design

Build / Receive a design model



Automate

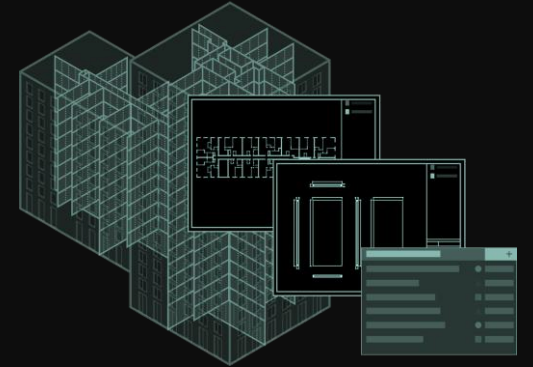
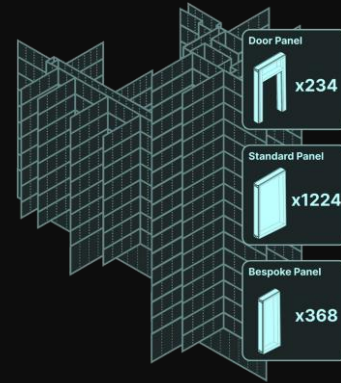
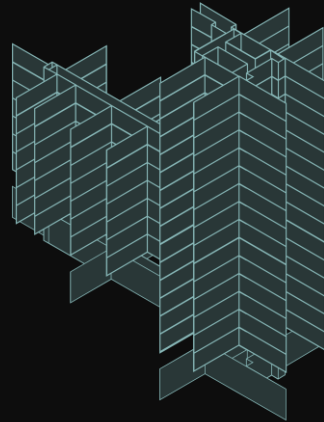
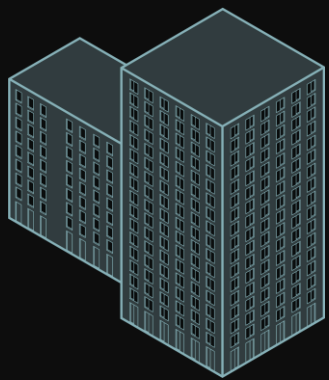
Iterate through 100's of placement options in seconds



Detail

Take your best option through to fabrication

Automate internal partition layouts



Load a project into
KOPE

KOPE automatically
finds where your
system/products
should go

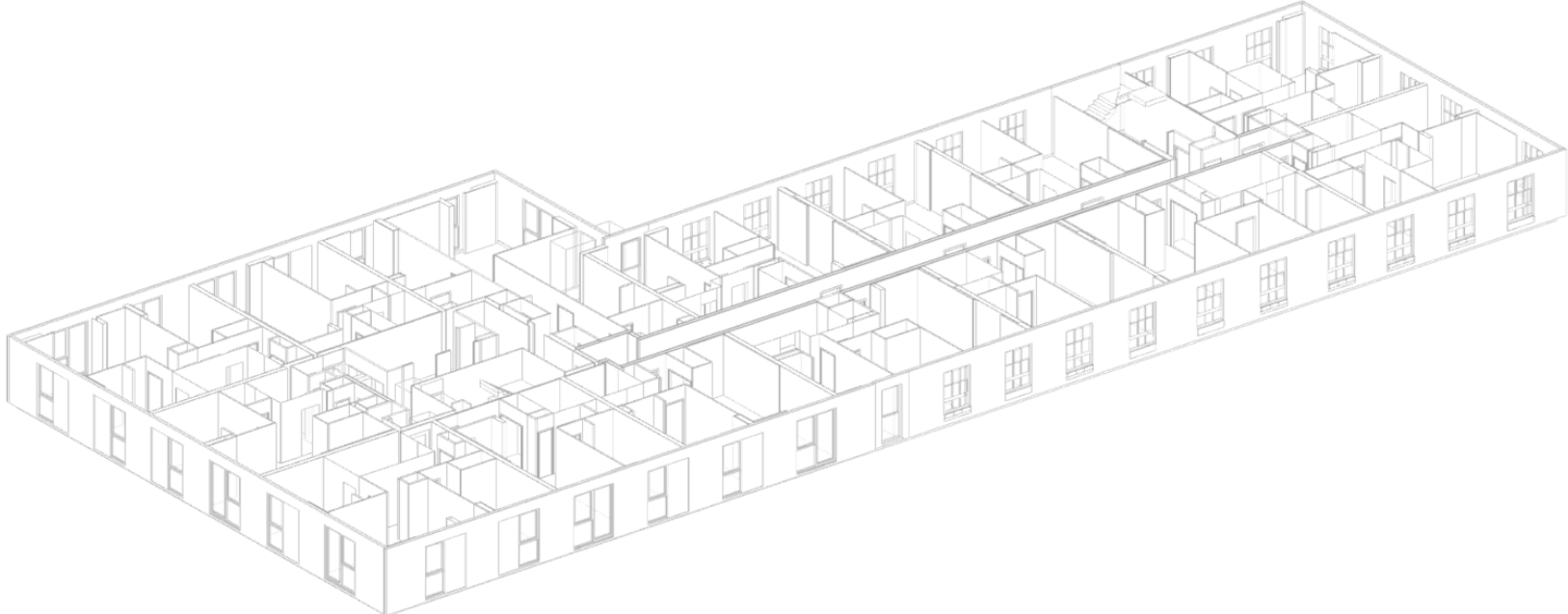
KOPE optimizes wall
assembly layouts,
reducing waste and
cost

KOPE outputs take-
off data for quotes
and estimates

KOPE enables
downstream fabrication
workflows

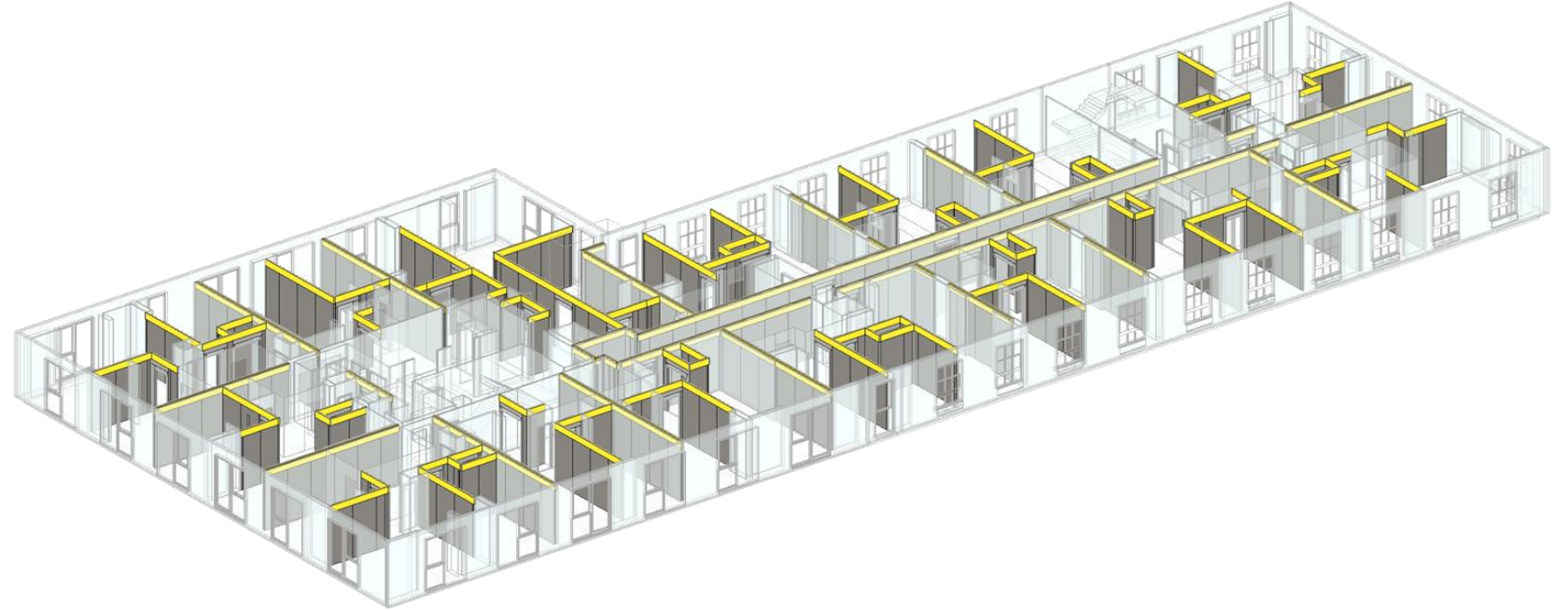
InteWall and  KOPE

We want to avoid teams starting from zero on every building.



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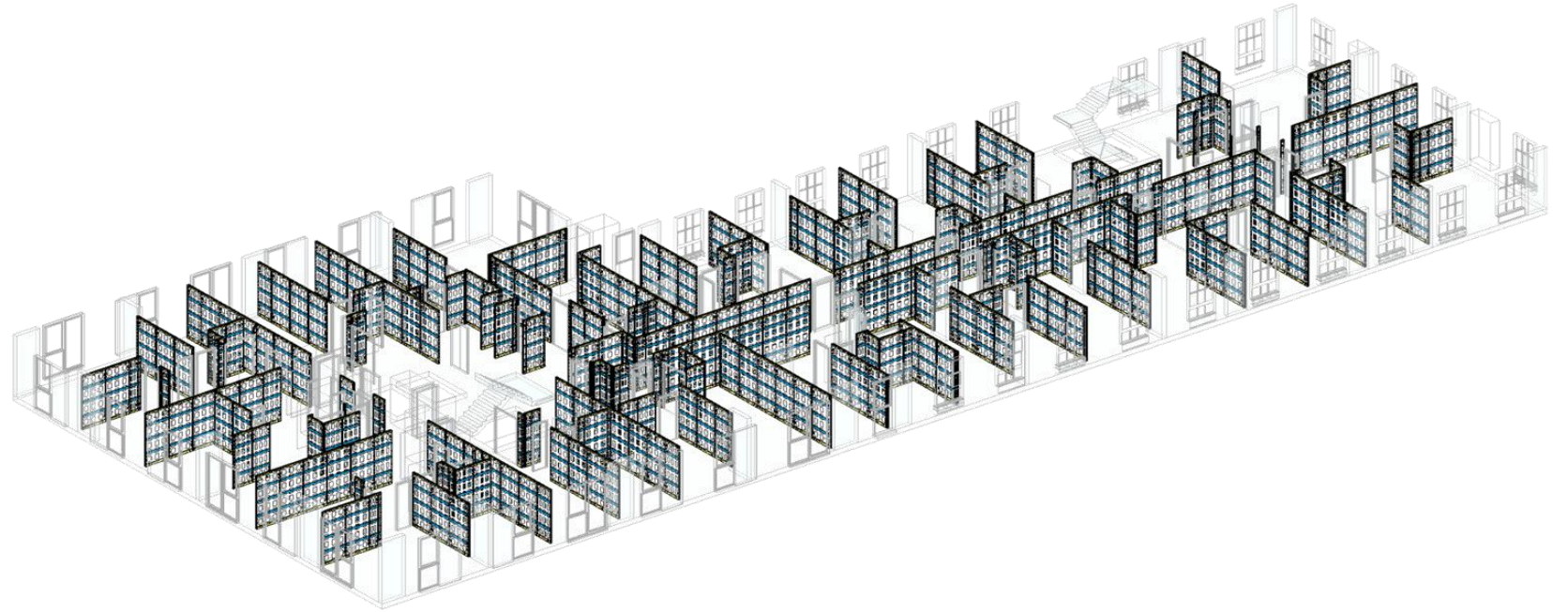
We want teams to focus on interfaces between products and leverage digital product systems.



We want to avoid teams starting from zero on every building.

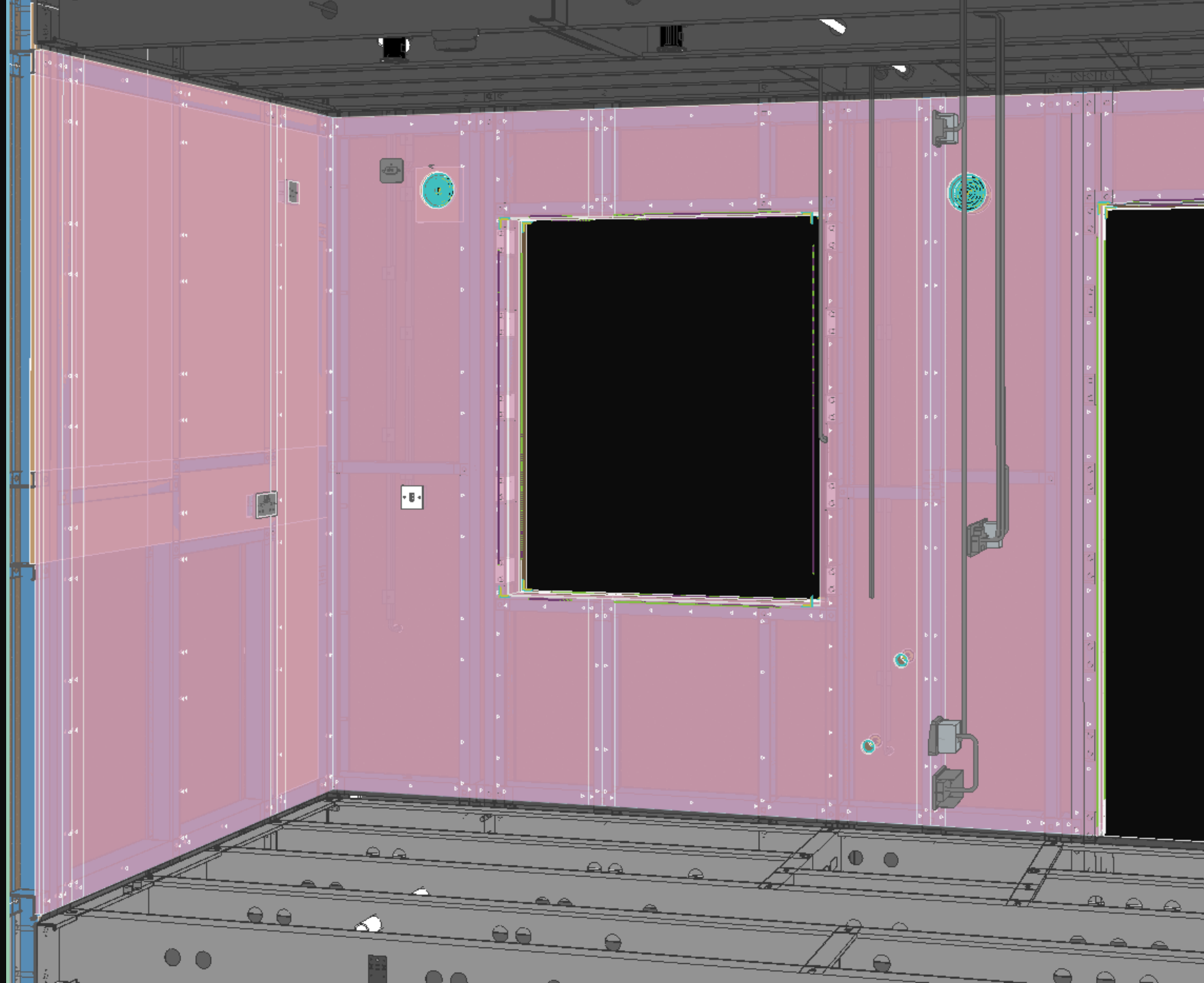
We want teams to focus on interfaces between products and leverage digital product systems.

Coupled with speedily giving the right level of detail to each part of the delivery chain.



Optimize the right solution.

Designs that are right for design, factory, and site installation.



Design Options +

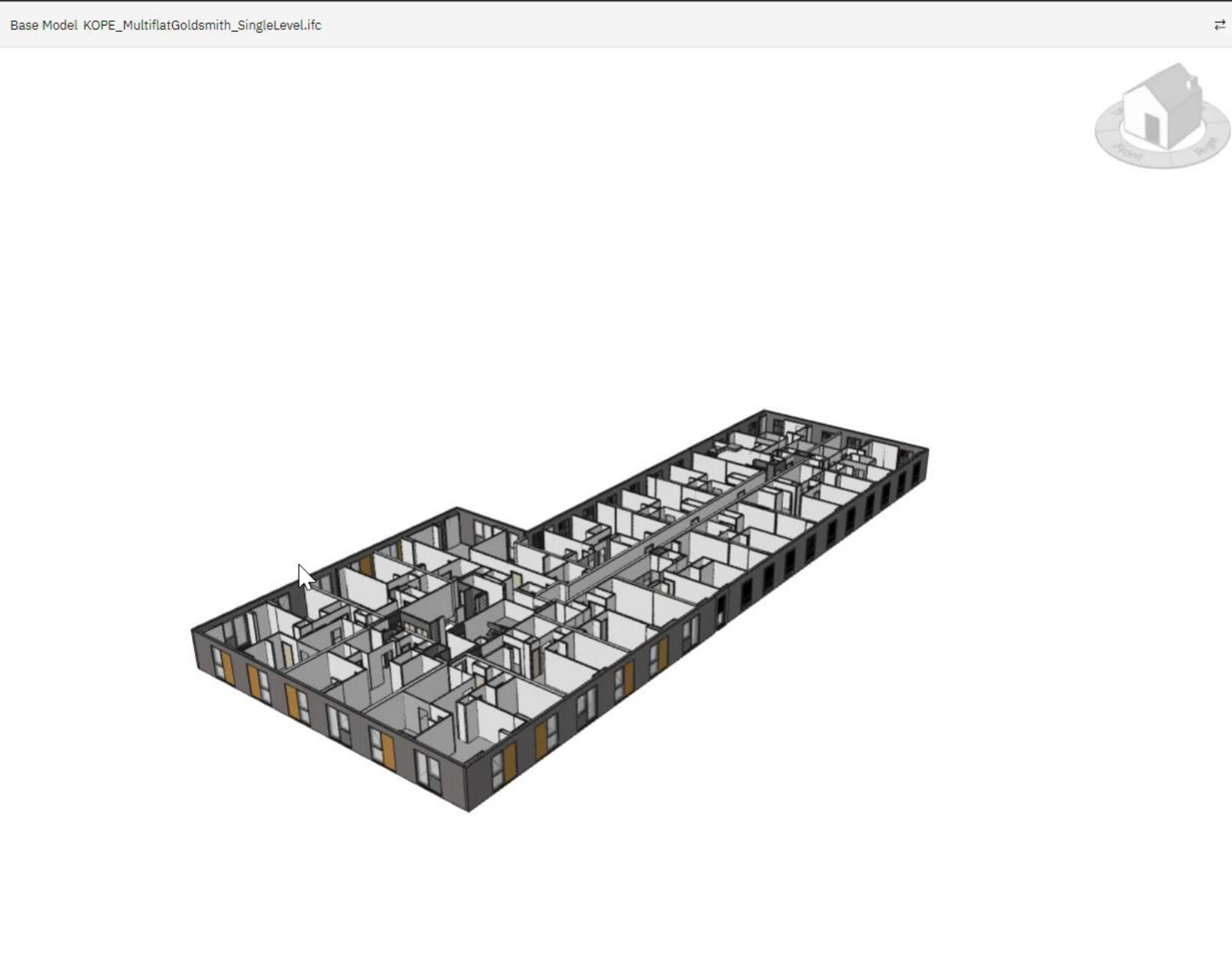
Products +

Internal Partition Plasterboard System

Status
Ready

Element set
Internal Walls

Configure



Internal Partition Plasterboard System

See more

Element set
Internal Walls

Metrics will appear here once this product has been applied.

Apply products →

Models

Navigation icons: pan, zoom, rotate, etc.

Settings

InteWall - Case Study  **KOPE**

Case Study: Wembley Park

Client: Saint-Gobain

Project Name: Wembley Park, London

Size: 500,000 sqft of office and retail space

Location: UK

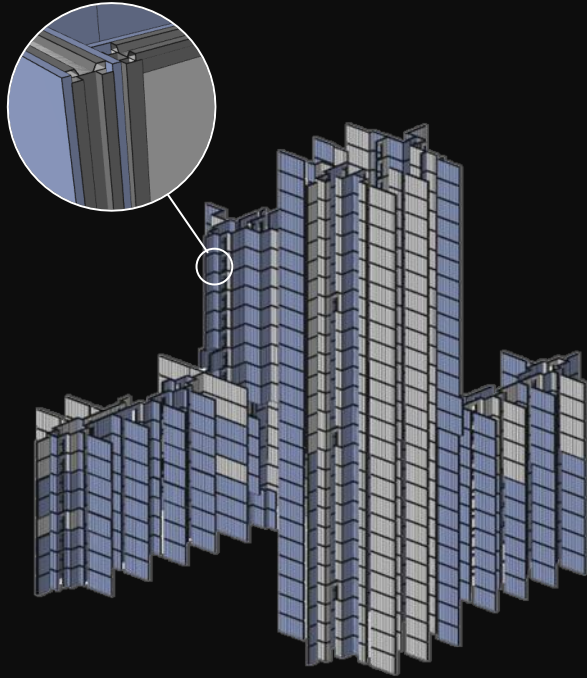
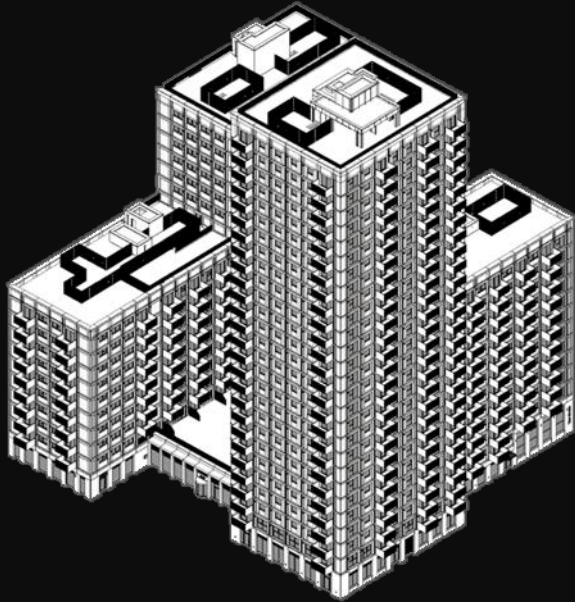
Product: InteWall (internal partition panel)

“Using KOPE, we were able to qualify the suitability of using the InteWall solution on the project within a matter of minutes instead of weeks.”

Tom Cox, Technical Solutions Director



Case Study: Wembley Park



Bring Project to KOPE

Apply Product/System

Use for Quote, Fabrication or Install

Case Study: Wembley Park



Internal Wall System

[See more](#)

Element set

Internal Partitions

Standard panels	217
Custom panels	163
Standardisation	57.11 %
Panels placed	380
Panel types	77
Non buildable panels placed	7
Material used cost	0

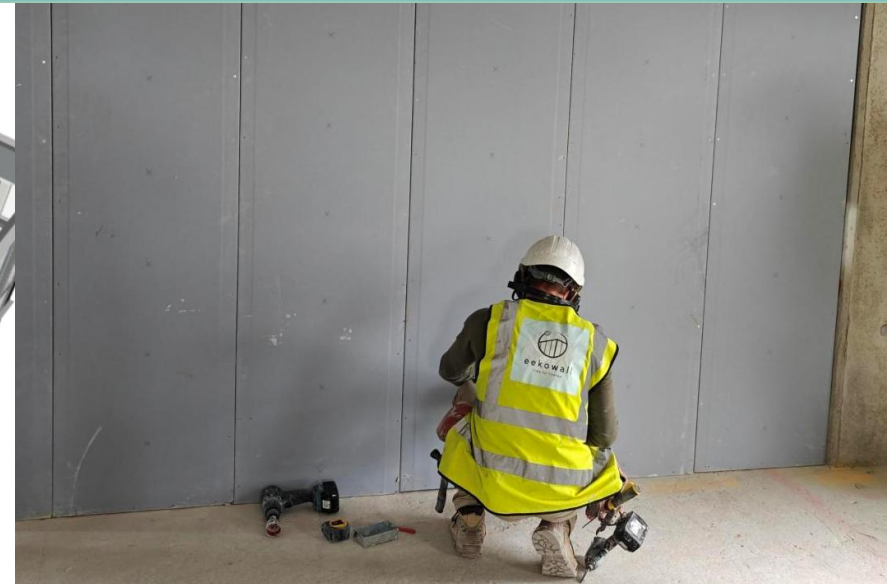
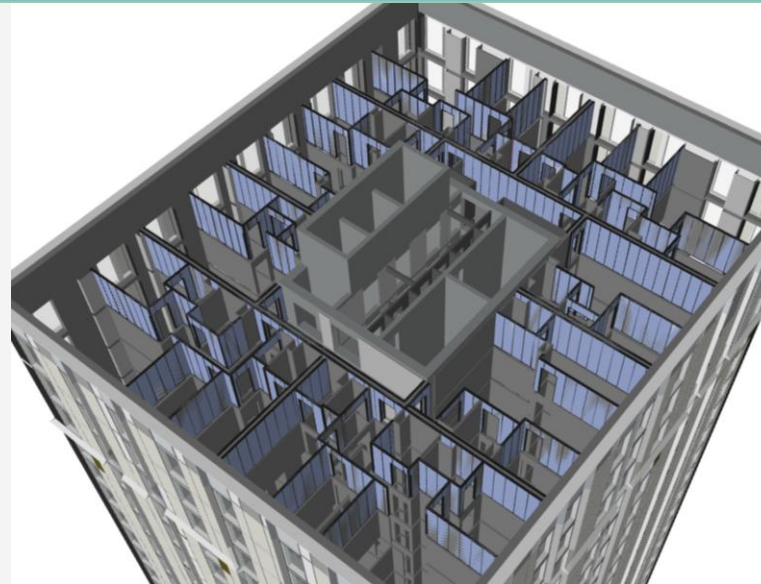
Party Walls

[See more](#)

Element set

Party Walls

Standard panels	280
Custom panels	29
Standardisation	90.61 %
Panels placed	309
Panel types	29
Non buildable panels placed	0
Material used cost	0



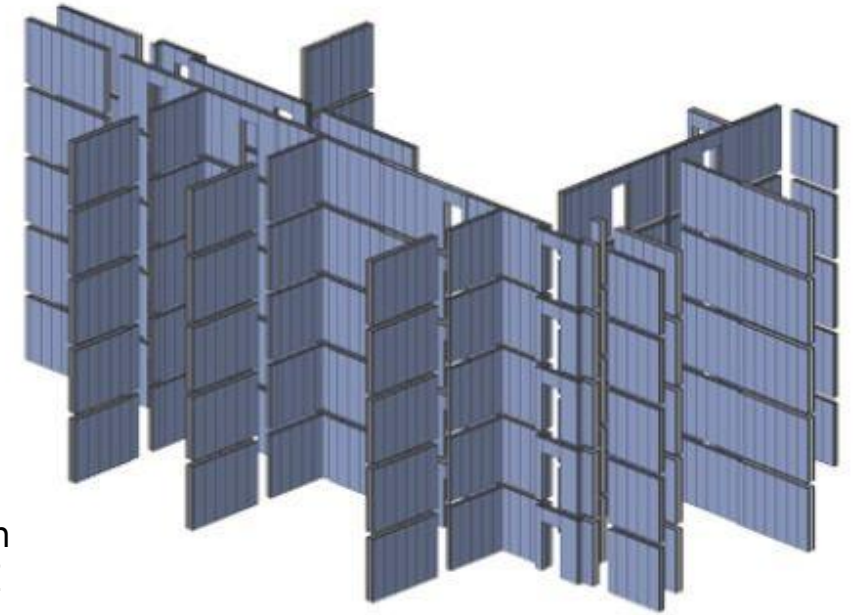
Overall building:
20,126 panels placed
13,187 standard panels

Case Study: Wembley Park

Client: Saint-Gobain InteWall

Overview from InteWall Team:

- An InteWall Project in the UK.
- **Full project panelisation on KOPE Software.**
- 4 Apartments worth of Panels on 1 lorry.
- 1 lift and an entire apartment is on the floor plate.
- Stillage collapsed on site and then returned.
- InteWall is the way forward.
- Simple. Effective. Efficient.
- Stay ahead of the competition by making your superior drylining installation faster, with less waste and stress.



InteWall system
set-out in KOPE

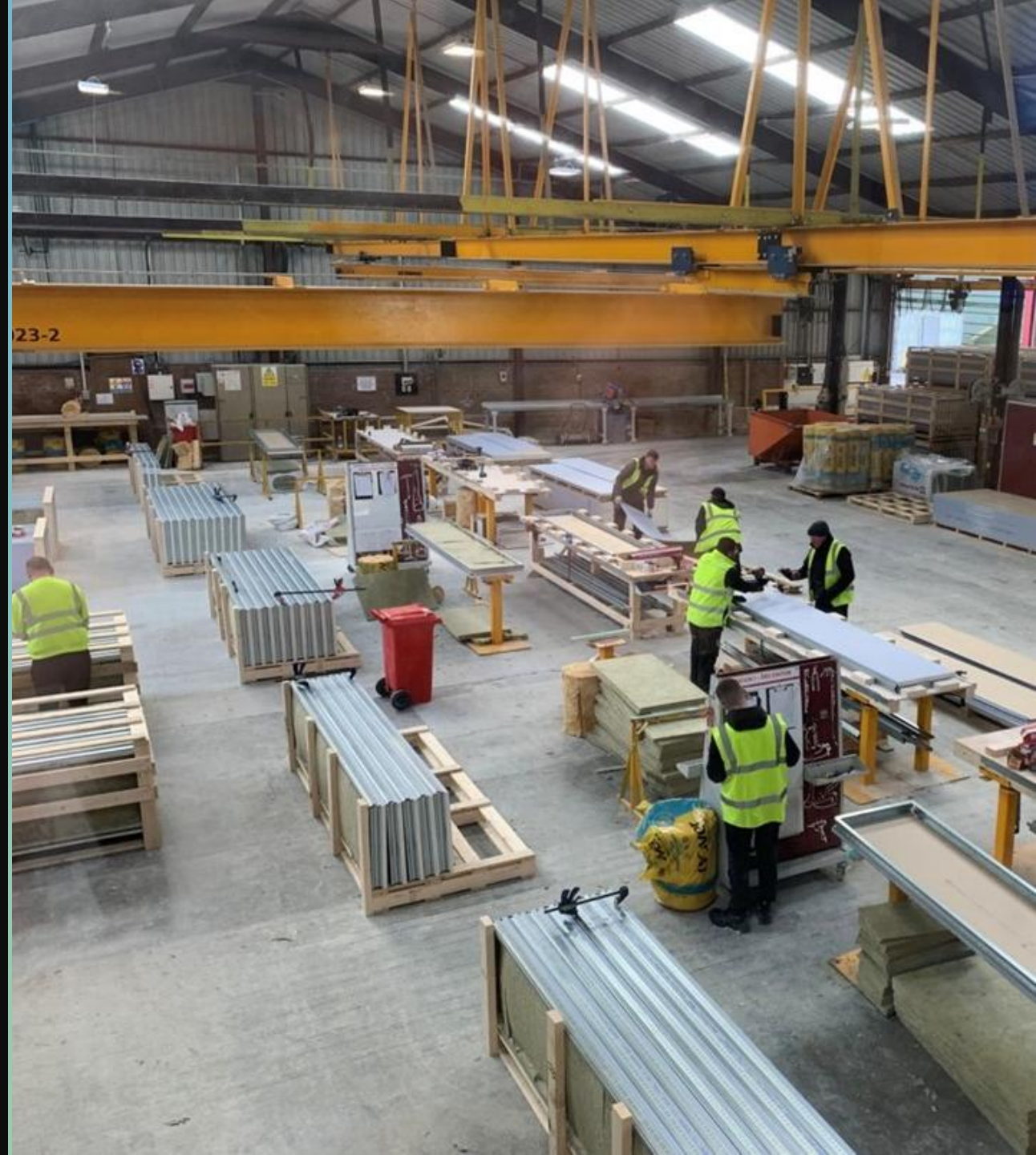
Case Study: Wembley Park

Saint-Gobain Offsite solutions, assembly of InteWall system is constructed in an efficient, specialist factory setting.

Overall project productivity is enhanced through managed, efficient production processes in a quality-controlled environment.

All InteWall panels undergo rigorous quality control checking before they leave the factory, ensuring that all elements are correctly assembled prior to arrival on site.

Once manufactured, InteWall panels are loaded into specially made protective and reusable steel stillages ready for dispatch to site.



Case Study: Wembley Park



InteWall Case Study – Programme

Across 4 levels of a project:

It took a team 34 days to install InteWall, a productivity increase of 65%. Compared to 98 days for traditional drylining.

- Manufactured offsite, the panels are delivered to the site in the correct order for installation.
- Doors and openings are pre-defined in the design stage, allowing installation to proceed quickly.
- Panels are ready for first fix with all wireways and pattressing pre-installed.

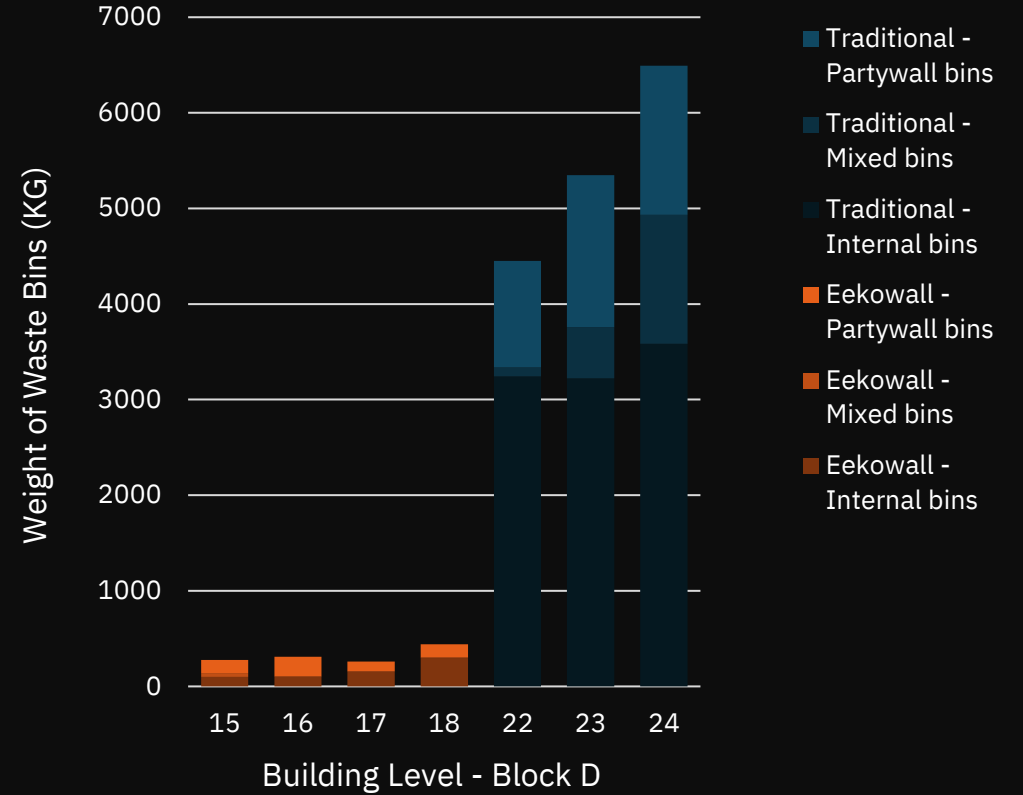
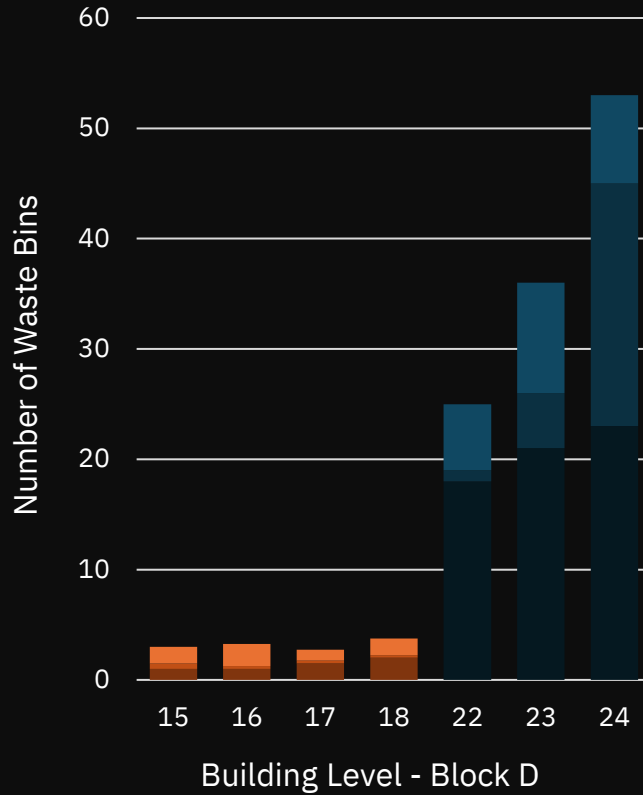
Block D	Total Resource (Days)	Week 1							Week 2							Week 3							Week 4							
		Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
Level 15	Traditional	98	2	4	4	6	6			6	6	6	6	6			6	6	6	6	6			6	4	2	2	2		
	InteWall	34	2	4	4	4	4			4	4	4	2	2																
Level 16	Traditional	98	2	4	4	6	6			6	6	6	6	6			6	6	6	6	6			6	4	2	2	2		
	InteWall	34	2	4	4	4	4			4	4	4	2	2																
Level 17	Traditional	98	2	4	4	6	6			6	6	6	6	6			6	6	6	6	6			6	4	2	2	2		
	InteWall	34	2	4	4	4	4			4	4	4	2	2																
Level 18	Traditional	98	2	4	4	6	6			6	6	6	6	6			6	6	6	6	6			6	4	2	2	2		
	InteWall	34	2	4	4	4	4			4	4	4	2	2																

InteWall Case Study – Waste

Across 4 levels of a project:

Intewall produced 440 kg of site waste, a reduction of 92%. Compared to 5,347 kg from traditional drylining.

- The InteWall process **reduces waste at every stage.**
- As a pre-formed panel, it minimizes onsite waste, **saving contractors and installers from dealing with disruptive waste removal.**
- Manufactured offsite, InteWall **manages off-cuts and waste in a clean environment**, promoting circularity and recycling.



Key Features

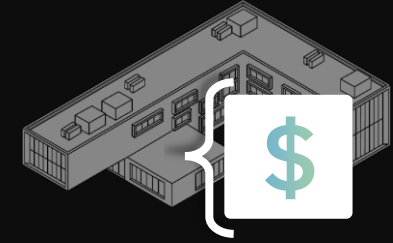
Key platform features, designed to drive efficiency in your delivery workflows



Design file agnostic



Optimises panel & door layouts



Add parts directly to your QTO

21x

Faster than manual placement



Outcome based optimisation



Use in depth insights to advance project decisions