

Redefining Next-Gen Infrastructure through Data, Intelligence, and Resilience

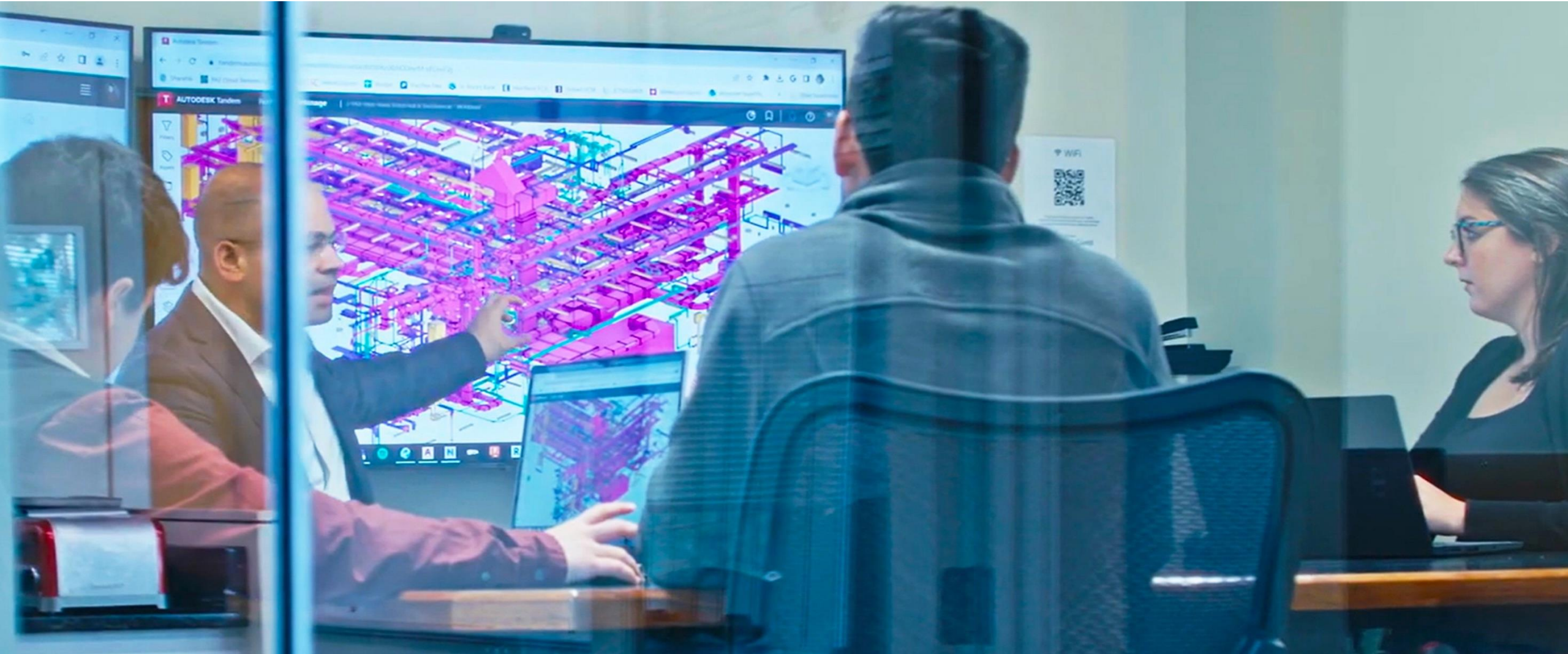
AEC Summit

Redefining Next-Gen
Infrastructure through Data,
Intelligence, and Resilience

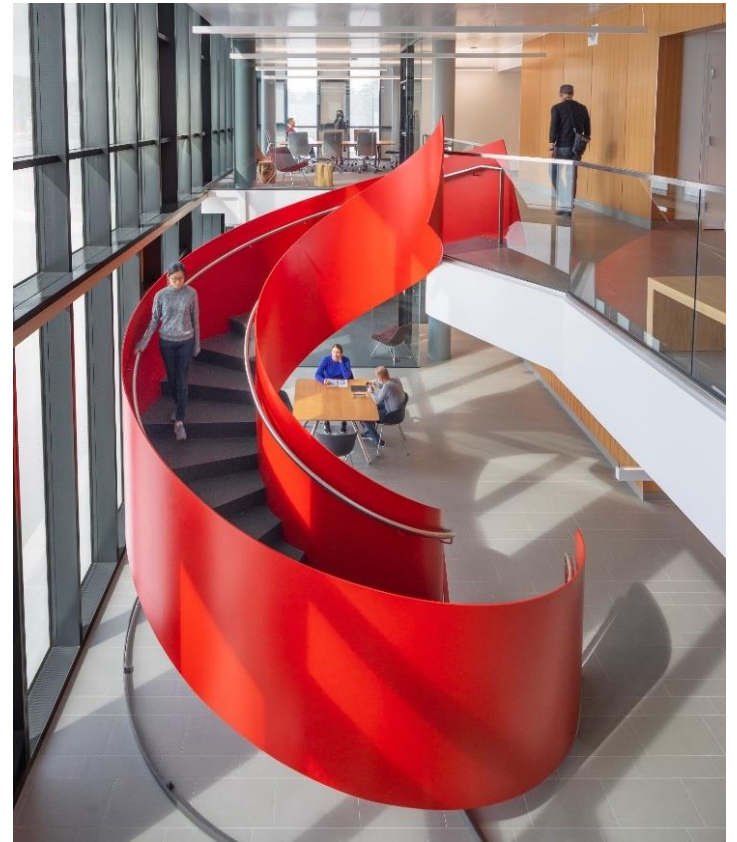
30 April - 1 May 2026

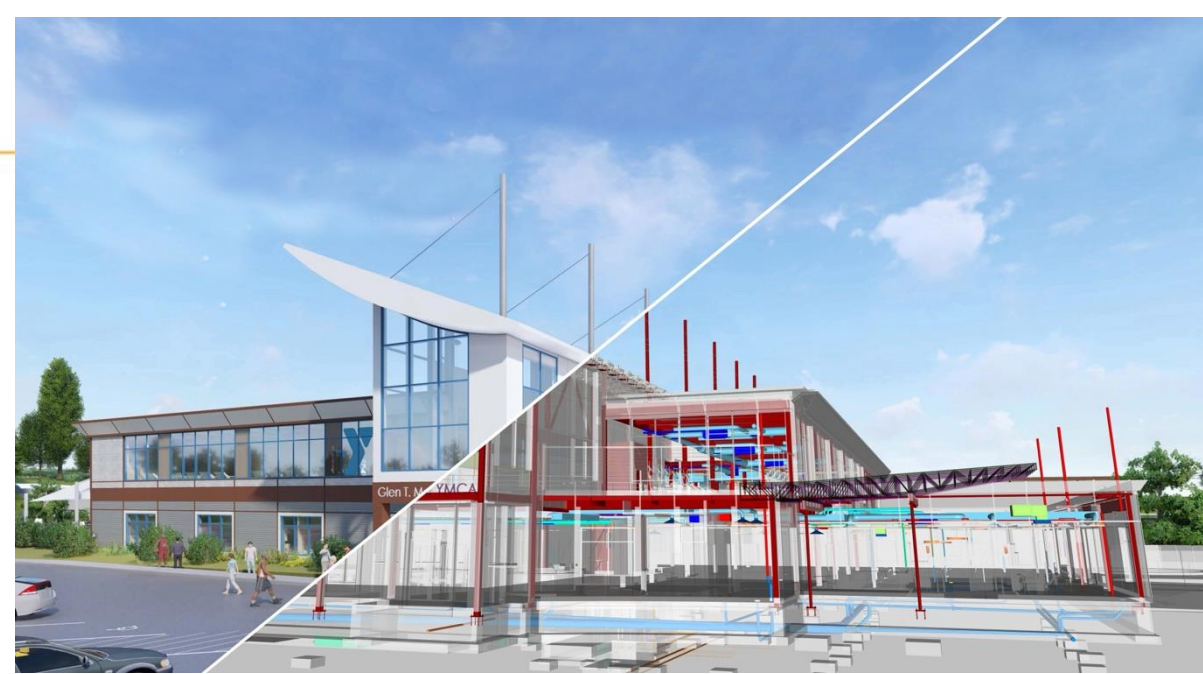


Amr Raafat
Chief Innovation
Officer
Windover Construction
USA

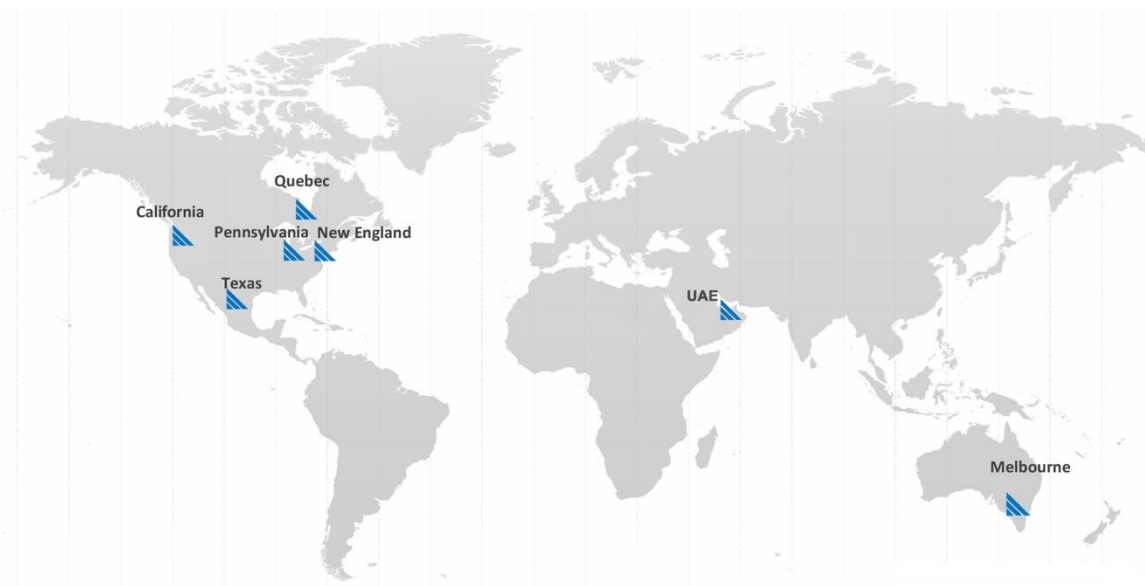


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Global Leader
in AEC
Innovations

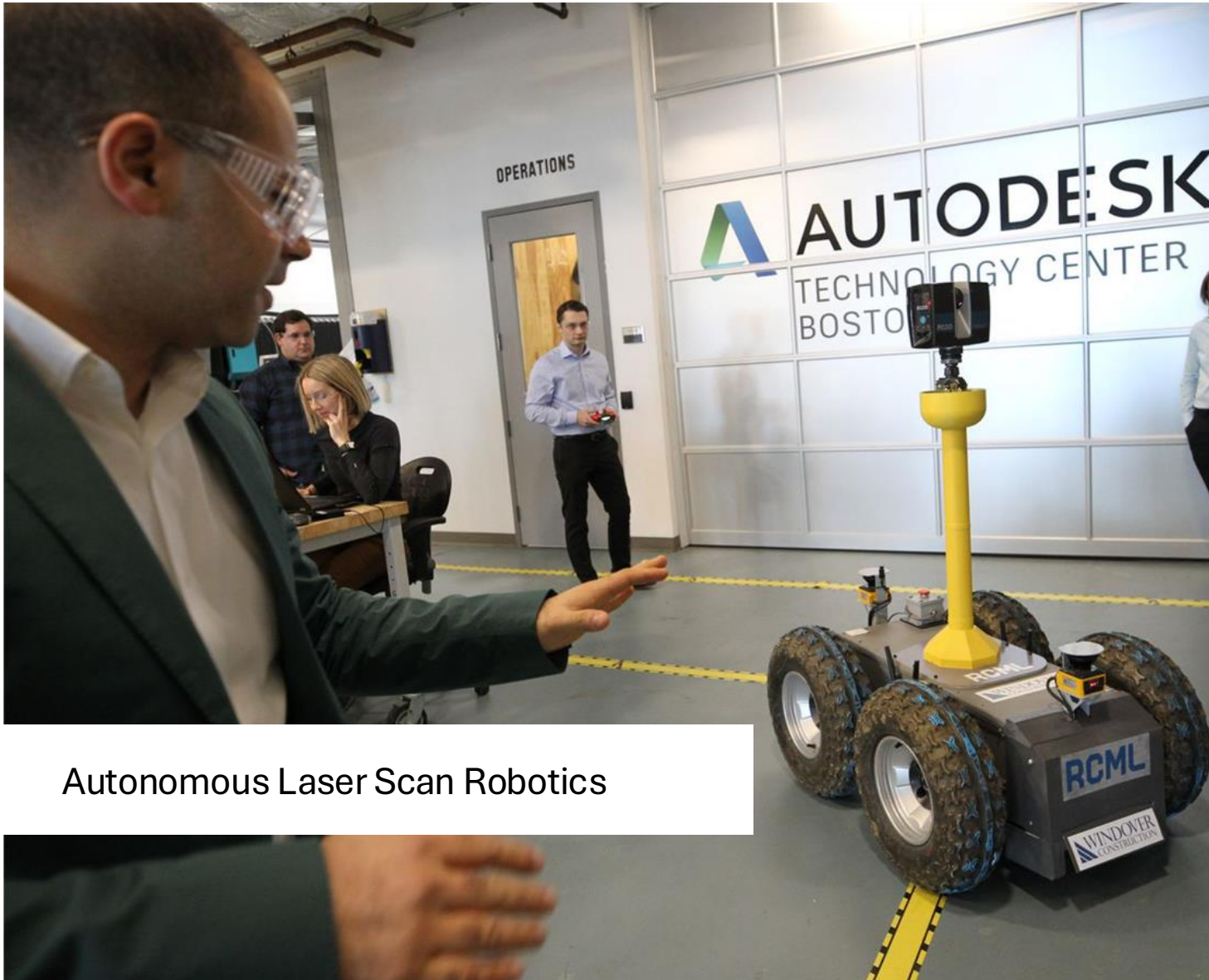


Network of
Connected



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Autonomous Laser Scan Robotics

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ABU DHABI – BINAA BIM-AI SMART PERMITTING PLATFORM

ABU DHABI, UAE

Elevate Your Design with AI-Enhanced BIM

The AI-enabled BIM platform efficiently processes building permit applications by conducting AI-powered building code compliance checks on 3D models. It enhances collaboration, streamlines project reviews, and significantly improves the accuracy and efficiency of the permitting process.

Smart inspection

Available now via the BINAA

[SEE MORE](#)



Immediate Impact

12,000

Visits to BINAA since launch

99%

Reduction in the average number of delayed transactions

61%

Reduction in permit issuance time

3000+

Consultants and contractors attending workshops

50%

Reduction in the total number of complaints

59%

Reduction in the average duration of transactions

53%

Reduction in the average number of resubmissions

99%

انخفاض في متوسط عدد المعاملات المتأخرة

Reduction in the average number of delayed transactions



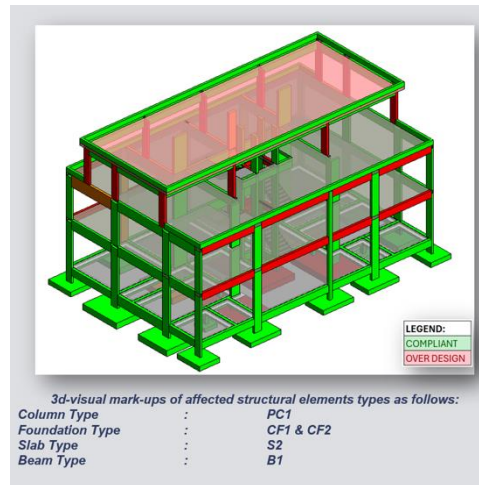
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Automated Code Compliance Check for:

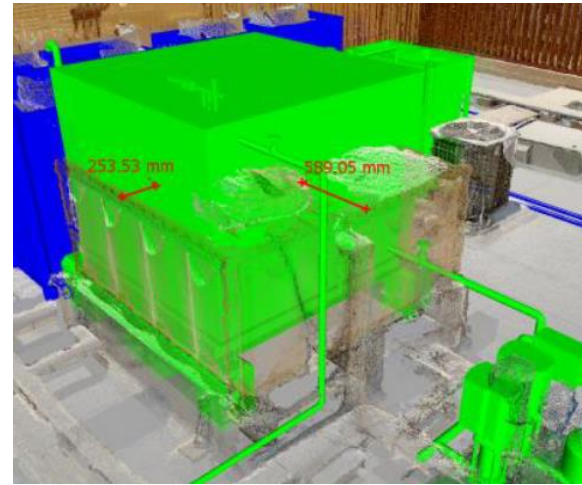
Architectural



Structural



Mechanical



Entities (TAQA)

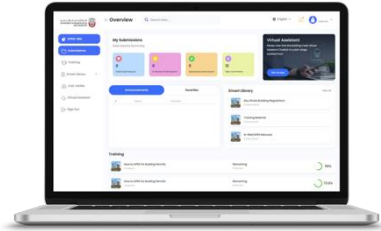
TAQA Code Compliance Check

Rules	TAQA	Section/Reference	status
1	Main Distribution Boards (MDBs): - Min Width: 600 mm - Min Depth: 250 mm - Min Height: 1600 mm.		Compliant
2	Must be on the front boundary wall for residential villas		Compliant
3	One electric room (2m X2m)		Compliant
4	Minimum Number of Socket Outlets in Kitchen : - At least 2 double sockets - One additional socket for every 2 meters of countertop - 1 cooker control unit		Compliant
5	Minimum Number of Socket Outlets in Bedrooms : (Minimum of 3 double sockets)		Compliant
6	Minimum Number of Socket Outlets in Living/Dining Room: (Minimum of 4 double sockets)		Compliant
7	Minimum Number of Socket Outlets in Corridors: (At least 1 double socket)		Compliant
8	Minimum Number of Socket Outlets in Bathrooms: (Only shaver socket if required)		Compliant



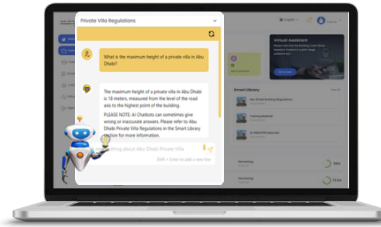
Intuitive and user-friendly interface:

With clear guidelines to facilitate smooth application submissions.



AI NLP Code Assistant Chatbot:

To answer any questions asked about codes and regulations in a natural human-like language.



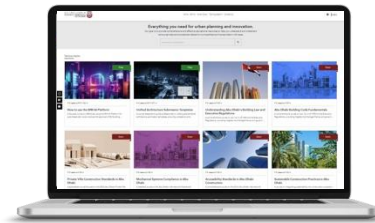
Smart Library Platform

To provide engineers accessing to the Building Regulations Smart Library Smart Library.



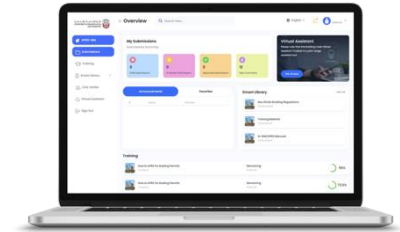
Training Platform

To provide both the engineer and applicant with access to the training.



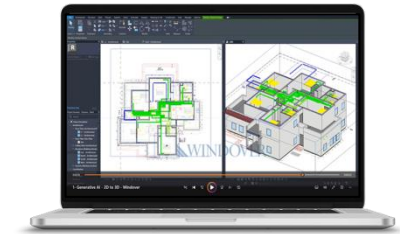
Automated Compliance Check:

A script for code compliance check and automated report generation



Generative AI :

To convert standard 2D drawings into a 3D model in BIM format.





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STREAMS Grid Charts Thresholds

Temperature (°C) 1. Cummings Board Room 421 CO2 2. L2 Wax Bridge Lobby 201 (IoT Sensor) 3. Cummings L3 Meeting Table 1 (IoT Sensor) 4. Hampstead-Cummings Bridge (IoT Sensor) 5. Hampstead Main Stair (IoT Sensor)



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Concord Academy Centennial Arts Center | Search Concord Academy Centennial Arts Center | Level 1 Plan

Friday, November 7, 2025 7:22 AM EST • Live

1AM 6:30AM 7:00AM 7:30AM 8:00AM 8:30AM 9:00AM 9:30AM 10:00AM 10:30AM 11:00AM 11:30AM 12:00PM 12:30PM 1:00PM 1:30PM 2:00PM 2:30PM

Filters Assets Files Docs Systems Connections Users Streams History Inventory

Charts - Google Chrome

tandem.autodesk.com/client/popout/popout.html

STREAMS Grid Charts Showing 10 of 10

- Humidity (%RH)
- Temperature (°C)
- Occupancy Y/N
- CO2 (ppm)

119 Storage Temp & Hum Sensor (Temperature & Humidity IoT Sensor) X

123 Control Room OCC Sensor (Occupancy IoT Sensor) X

124 P3 CO2 Sensor (CO2 IoT Sensor) X

Level 1 Plan

Map labels: E-LITE-EQPM, S-COLS, M-HVAC-CDFF, Q-SPCQ, DMNS, F-PIPE-CNTRMechanical Piping_ Re...

Map features: North arrow, TOP, S, E, 1x

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Thank you

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