



Gathering23

Accelerating BIM adoption

CitA

WELCOME
TO ATHLONE
for the 6th CitA BIM Gathering

CAREER AND BACKGROUND TO DATE



Jonathan Rogers
Kingspan Group
BIM Manager

Kingspan Group
BIM Manager: 2019 - Present

MSc Applied Building Information and Modelling
TUD: 2016 – 2019
Dissertation: The Post-Occupancy Digital Twin



Our global ikon innovation centre is a leader in advanced material science and digitalisation, supporting our R&D teams around the world

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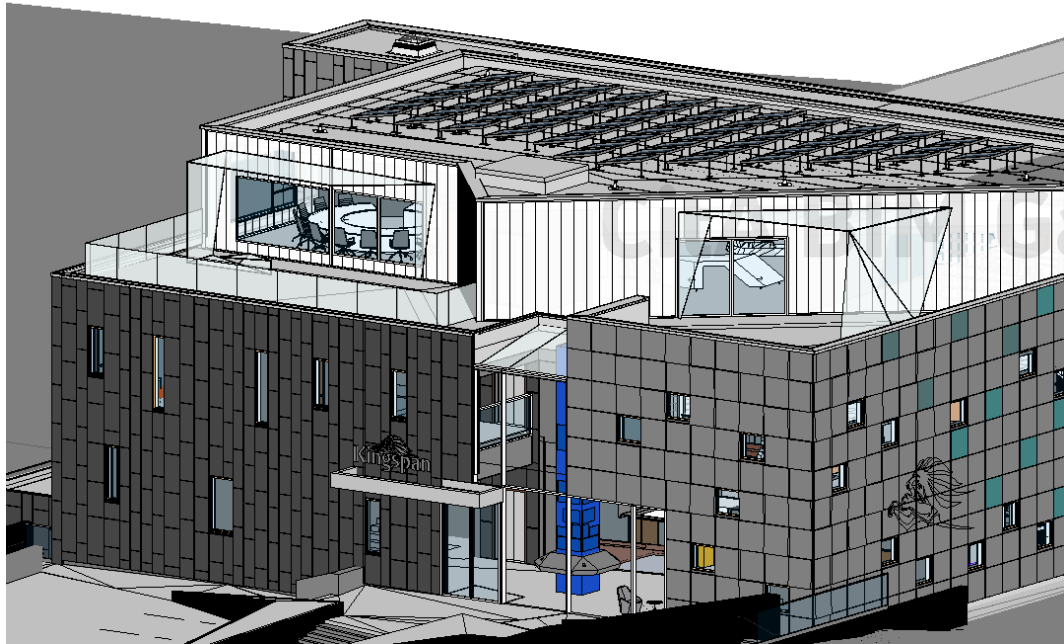
Smart Installation
For Connected Construction

Compatible Systems
For Low Energy Building Envelopes

Data Driven Design
For Advanced Collaboration & Compliance

CITA

PROJECT 1 - DIGITAL TWIN - IKON



PROJECT 1 - DIGITAL TWIN - IKON



PROJECT 2 – DIGITAL PRODUCT DEVELOPMENT

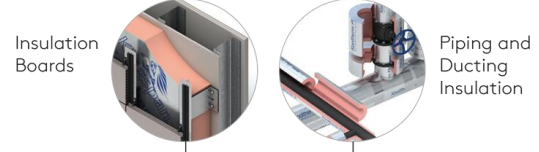
Our 5 operating divisions make a range of high-performance products for energy-efficient, low carbon & healthy buildings.

- Insulated Panels
- Insulation
- Light, Air & Water
- Roofing & Waterproofing
- Data & Flooring Technology

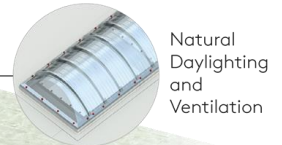
Kingspan Insulated Panels
62% revenues



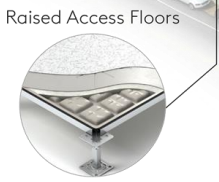
Kingspan Insulation
20% revenues



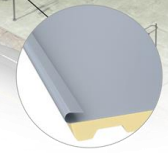
Kingspan Light, Air + Water
12% revenues



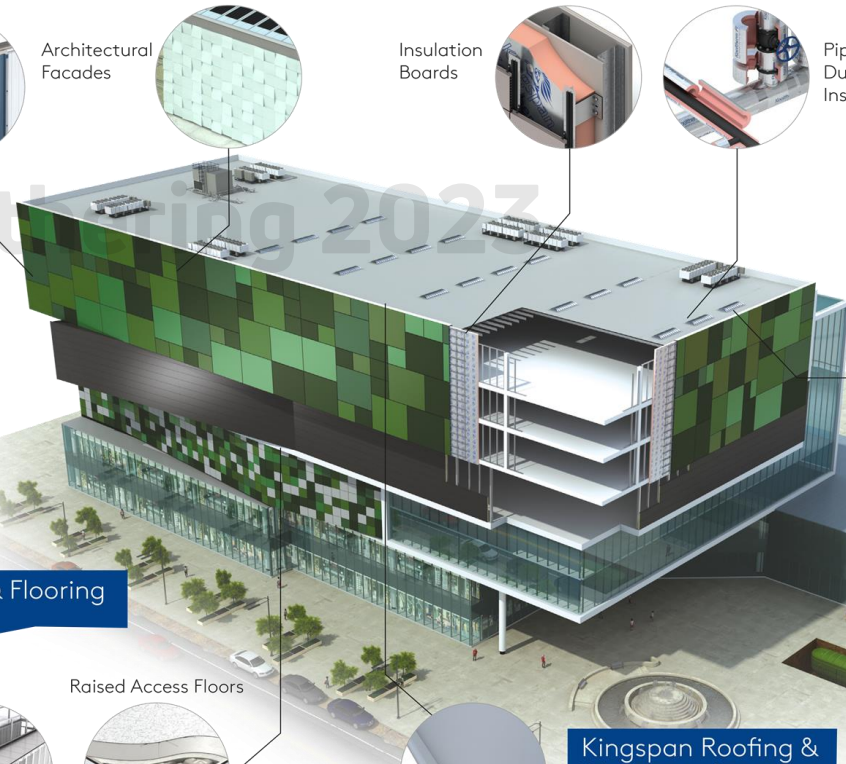
Kingspan Data & Flooring Technology
4% revenues



Kingspan Roofing & Waterproofing
2% revenues



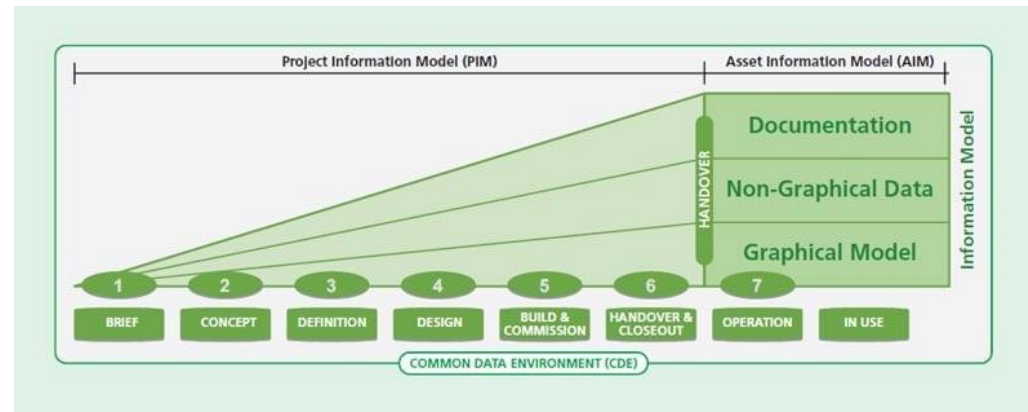
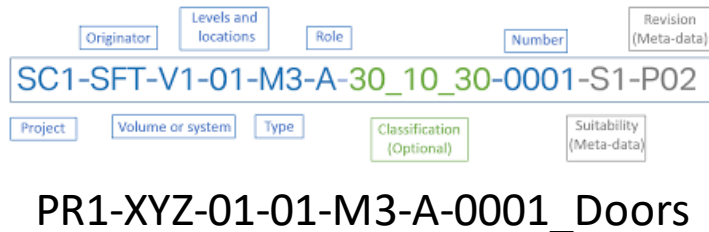
Flat Roofing, Flexible Film and Lightweight Roofing



ALIGNMENT WITH ISO19650



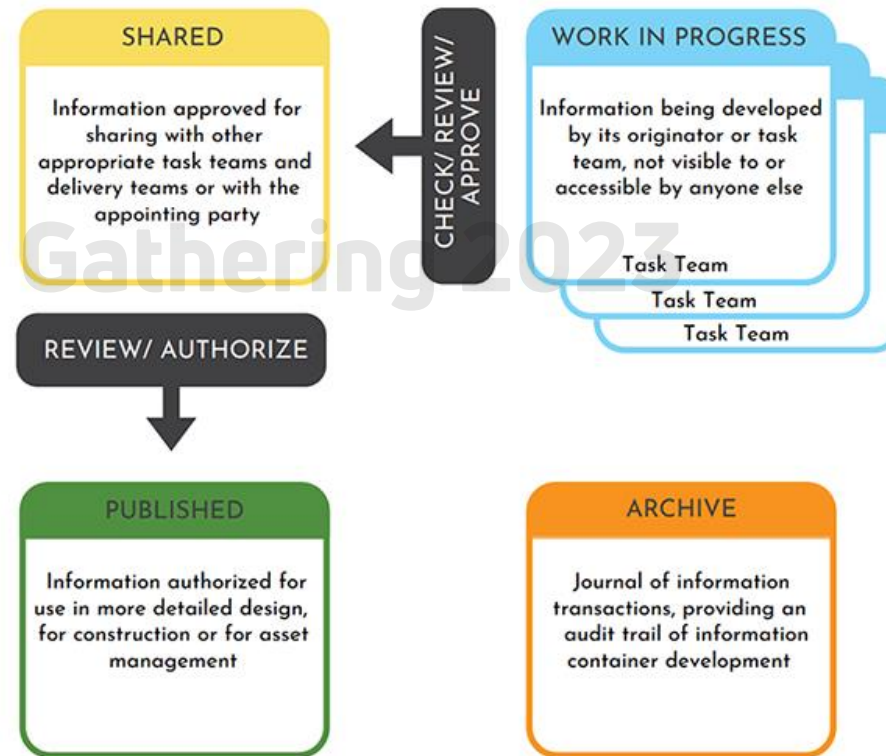
International Organization for Standardisation
ISO19650-1 & 19650-2



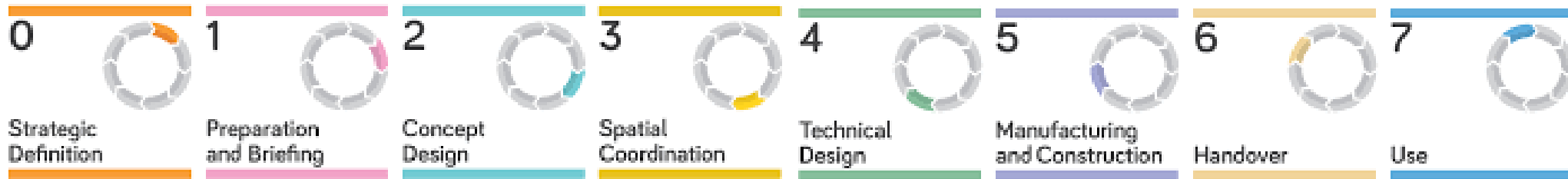
COMMON DATA ENVIRONMENT - BIM EDUCATION AND UPSKILLING

Autodesk Construction Cloud – Management & Distribution

- Aligned folder structure
- Single source of truth
- Collaboration
- Interoperability
- Familiarity & Education

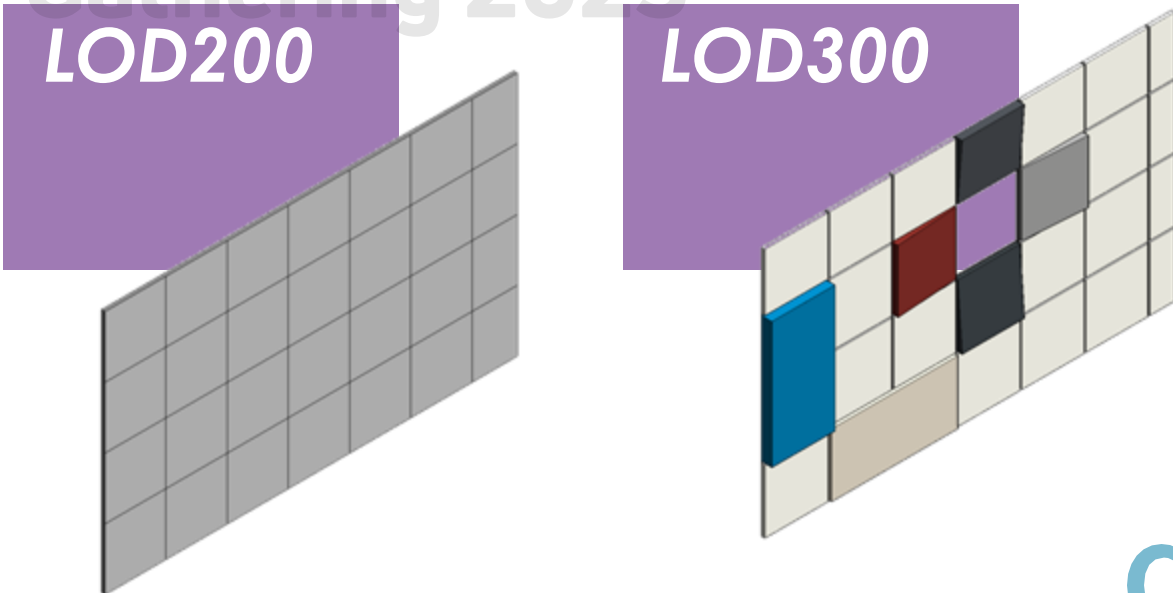


LEVEL OF DETAIL - RIBA PLAN OF WORK



Level of Detail - Aligned with RIBA Plan of Work 2020

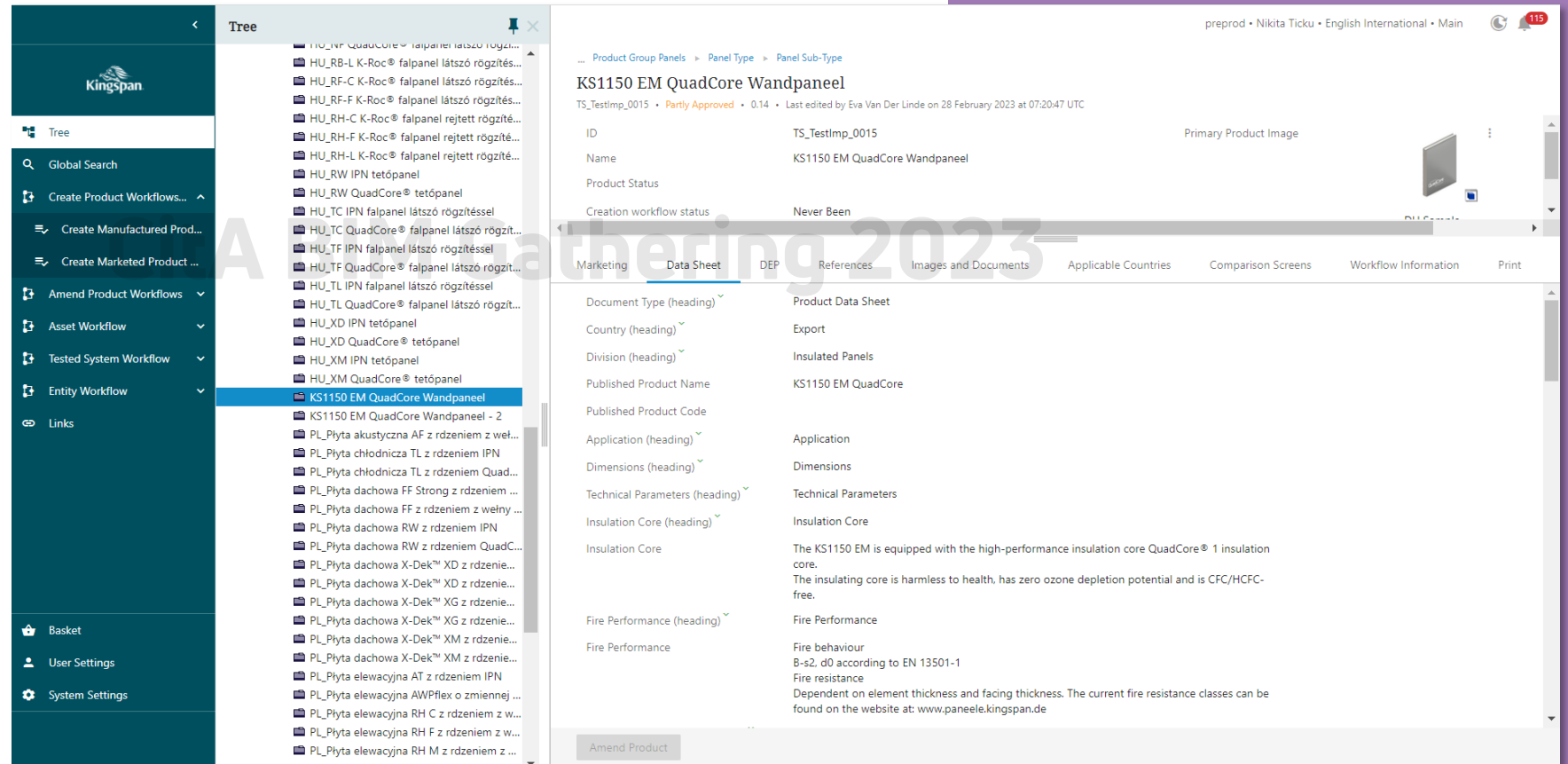
- Level of Detail of BIM content
- Developed for use in Autodesk Revit
- LOD200 – Concept Design
- LOD300 – Developed Design
- LOD400 – Detailed Design



LEVEL OF INFORMATION - PRODUCT DATA MANAGEMENT

Product Information Management (PIM) system

- Product level data
- Trusted source of product data
- Full audit trail
- Ability to scale
- Data in multiple languages



The screenshot displays the Kingspan PIM system interface. On the left is a navigation sidebar with options like 'Tree', 'Global Search', and 'Create Product Workflows'. The main area shows a product tree with 'KS1150 EM QuadCore Wandpaneel' selected. The right pane shows the product details for 'KS1150 EM QuadCore Wandpaneel', including its ID, name, and status. Below this is a 'Data Sheet' tab with various fields and their values, such as 'Document Type: Product Data Sheet', 'Country: Export', and 'Application: Application'. The interface also includes a 'Marketing' tab and a 'Print' button.


MANUFACTURERS APPROACH – REMOVAL OF SILOS

MODEL DISCIPLINE: Y - Specialist Manufacturer
MODEL REFERENCE: 01-KIP-AWP-ZZ-M3-Y-2001-QC_MR_Wall_Lod300
REVIT VERSION: Revit 2019.2.5

Generic Model Schedule


Item	Material
1	Kingspan_Aluminum_Solid
2	Kingspan_Aluminum_Solid
3	Kingspan_Aluminum_Solid
4	Kingspan_Aluminum_Solid
5	Kingspan_Aluminum_Solid
6	Kingspan_Aluminum_Solid
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100	Kingspan_Aluminum_Solid

01-AWP-Micro-Rib-QC-LOD300




Insulated Wall Panels
KS_AWP_MICRO-RIB_QUADCORE

FOR CONCEPTUAL DESIGN USE ONLY
NOT TO BE USED FOR MANUFACTURING



Kingspan Limited
Unit 3
Enterprise Business Park
Lough Riel
Ringsend
Dublin
D18 2Y8
Ireland
Tel: +353 (0) 1362 716100
Email: info@kingspanpanels.com
info@kips.com

Insulated Roof & Wall Panels
Kingspan Limited
Unit 3, Enterprise Business Park, 3, Rigg Park, Ringsend, Dublin 18, Ireland
Website: www.kingspan.com
Email: info@kingspan.com



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STANDARDISATION OF CONTENT ACROSS GROUP

CitA BIM Gathering 2023

SCOPE AND PROJECT PROGRESSION





PHYSICAL AND DIGITAL SPECIFICATION

Kingspan Limited

NBS

Specification







Project Client:	
Project Code:	103027
Project Title:	
Publication Number:	001
Publication Title:	External Cladding Buildings 3A, 3B, 11, 12, 13, and 15
Publication Status:	In Revision
Revision:	A
Date:	01-02-2022
Project Description:	

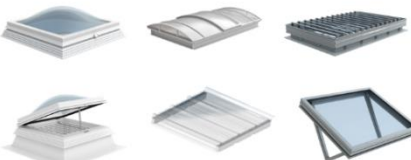

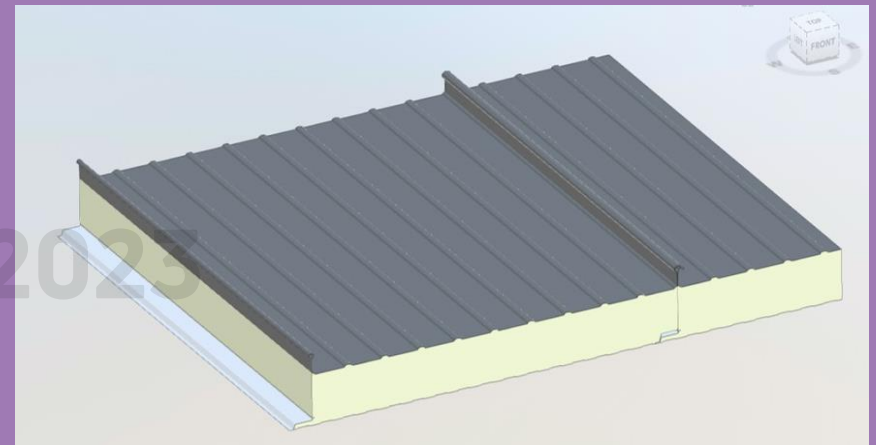
INSULATED PANELS

Insulated Panel Systems for Roof and Wall, with a full range of accessories including Daylighting, Gutters, Corners, Flashings, Top Hats and in some markets safety systems and structural steel. Some markets also offer Architectural Facades.

LIGHT + AIR

Natural daylighting, ventilation and smoke management solutions including sky domes, rooflights, translucent wall panels, vented skylights and smoke vents. Supported by maintenance services in some markets.

BIM BUNDLE AND RISK OF BULK DOWNLOAD

The BIM Bundle Approach removes the risk of designer's bulk downloading content and storing for future projects.

Ensures the customer is supplied with current core types and profilation options.



AUTOMATING REVIT FUNCTIONALITY



CitA BIM Gathering 2023



AUTOMATING REVIT FUNCTIONALITY



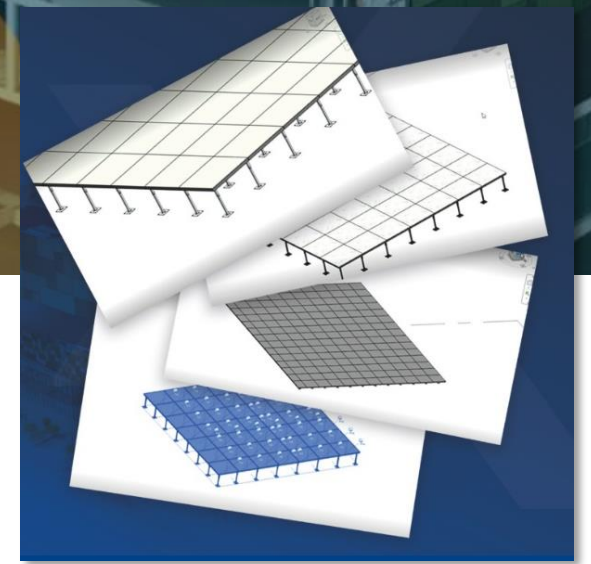
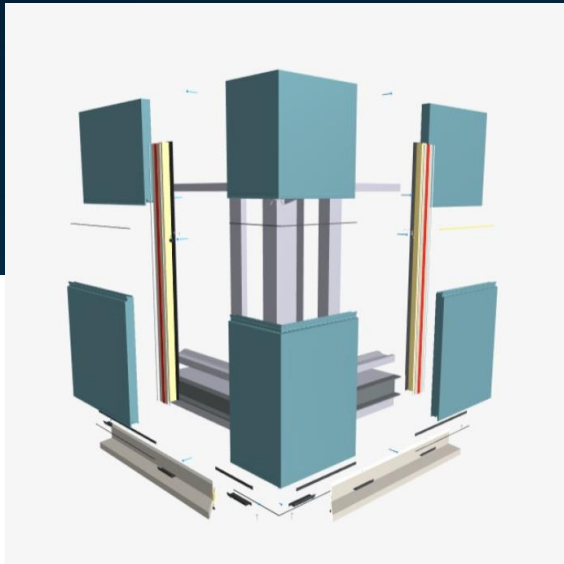
CitA BIM Gathering 2023



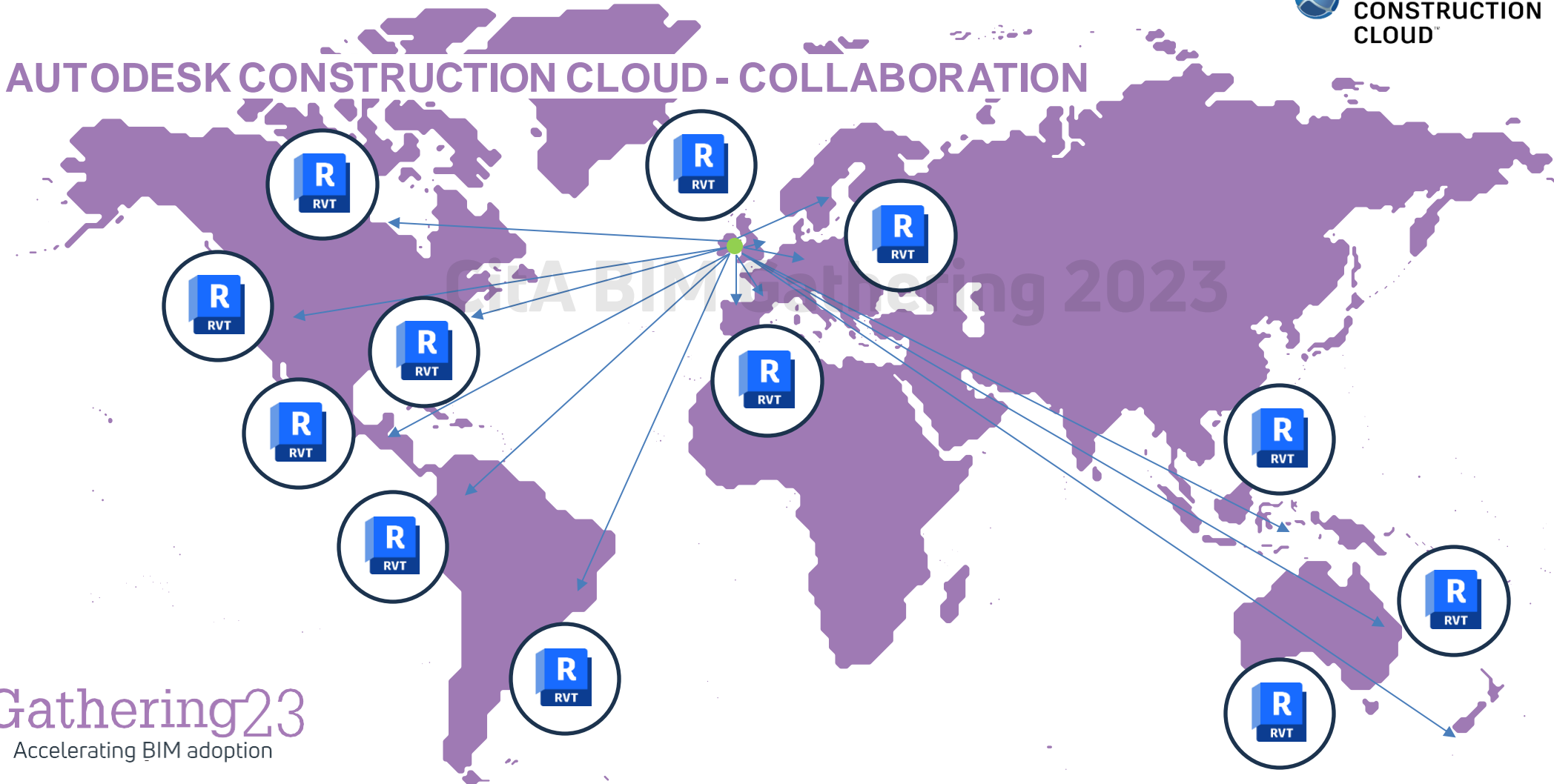
BIM APPROACH - FASTER, BETTER, EASIER

Welcome to Tech-eXchange

Our Tech-eXchange team are here to support you from the earliest design and specification stages right through to installation and post-occupancy.



AUTODESK CONSTRUCTION CLOUD - COLLABORATION






PROJECT 3 - DIGITAL PROJECT DELIVERY – LINKING MODELS TO ERP SYSTEM

MODEL DISCIPLINE: Y-Specialist Manufacturer
 MODEL REFERENCE: GOALHOND-KGR-ZZ-ZZ-M3-Y-0002
 REVIT VERSION: 2020.2


Honduras Hospital



Insulated Roof & Wall Panels
 Kingspan Limited
 728 Sunnyside Drive, Oakland, FL, 32704, United States
 Tel: +1 877 638 5266
 Email: Kingspan@kingspan.com

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 NOT TO BE USED FOR MANUFACTURING

TO REQUEST A KINGSKAN REVIT SPECIFICATION PLEASE SCAN THE QR CODE BELOW AND COMPLETE THE ONLINE FORM




THE FOLLOWING MUST BE CONFIRMED BY THE PROJECT ENGINEER:

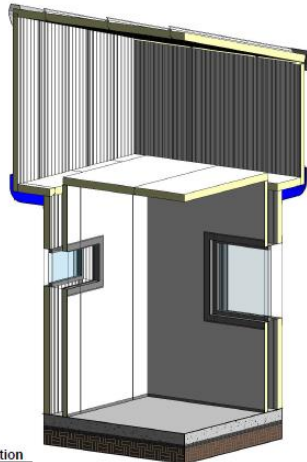
- PRIMARY & SECONDARY STEELWORK DESIGNS (BASED ON PROJECT SPECIFIC LOADINGS)
- RAINWATER DRAINAGE SYSTEM

3 NO. 4" X 4" DOWNSPOUTS REQUIRED ON EACH ROOF SLOPE. 9 NO. IN TOTAL.


1 3D_External View



2 3D_Building Section




3 3D_Internal View



MODEL DISCIPLINE: Y-Specialist Manufacturer
 MODEL REFERENCE: GOALHOND-KGR-ZZ-ZZ-M3-Y-0002
 REVIT VERSION: 2020.2


Honduras Hospital



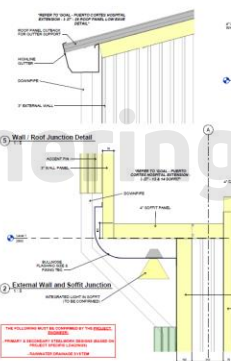
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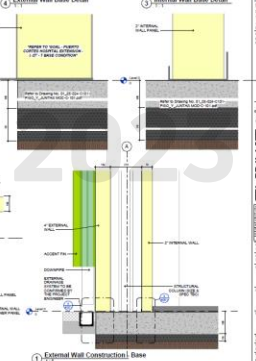
TO REQUEST A KINGSKAN REVIT SPECIFICATION PLEASE SCAN THE QR CODE BELOW AND COMPLETE THE ONLINE FORM



1 External Wall Base Detail




2 Internal Wall Base Detail



MODEL DISCIPLINE: Y-Specialist Manufacturer
 MODEL REFERENCE: GOALHOND-KGR-ZZ-ZZ-M3-Y-0002
 REVIT VERSION: 2020.2

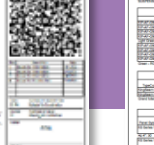
Honduras Hospital



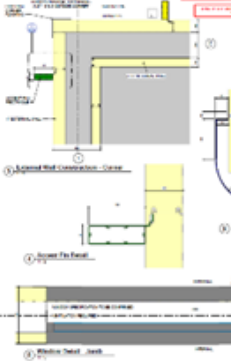
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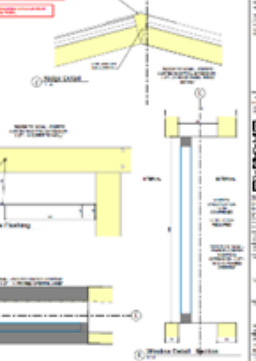
TO REQUEST A KINGSKAN REVIT SPECIFICATION PLEASE SCAN THE QR CODE BELOW AND COMPLETE THE ONLINE FORM



1 External Wall Construction - Corner




2 External Wall Construction - Straight





MODEL DISCIPLINE: Y-Specialist Manufacturer
 MODEL REFERENCE: GOALHOND-KGR-ZZ-ZZ-M3-Y-0002
 REVIT VERSION: 2020.2


Honduras Hospital



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REVIT MODEL INFORMATION	
Model Name	GOALHOND-KGR-ZZ-ZZ-M3-Y-0002
Model Discipline	Y-Specialist Manufacturer
Model Reference	GOALHOND-KGR-ZZ-ZZ-M3-Y-0002
Revit Version	2020.2
PROJECT INFORMATION	
Project Name	Honduras Hospital
Project Location	Honduras
Project Number	GOALHOND-KGR-ZZ-ZZ-M3-Y-0002
Project Start Date	2020-01-01
Project End Date	2020-12-31
Project Status	Design
Project Manager	Jonathan Rogers
Project Engineer	Jonathan Rogers
Project Designer	Jonathan Rogers
Project Checker	Jonathan Rogers
Project Approver	Jonathan Rogers
Project Date	2020-01-01
Project Version	1.0
Project Description	Insulated Roof & Wall Panels
Project Notes	

A nighttime photograph of a stone bridge with multiple arches spanning a river. In the background, a large, illuminated church with a dome and two towers is visible. The scene is reflected in the calm water of the river. The sky is dark with some light clouds.

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THANK YOU