

FINISHES & INTERIORS SECTOR

The Golden Thread – Information Management in construction

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Programme



Welcome to the Digital Revolution Mark Norton, Digital Construction Director, ISG

Using technology to support compliance, measure progress and avoid waste Kate Hawkins, Pre-Contract Projects Director, Stanmore

Lining up a Golden Thread that works for everyone Dr Stephen Hamil, Innovation Director, NBS

How do we all contribute to a whole building approach? Bola Abisogun OBE, Digital Director, BIM Academy

Developing your Digital Strategy Iain McIlwee, Chief Executive, Finishes and Interiors Sector





Mark Norton

Digital Construction Director, ISG

Welcome to the digital revolution

Welcome to the digital revolution

Mark Norton Digital Construction Director

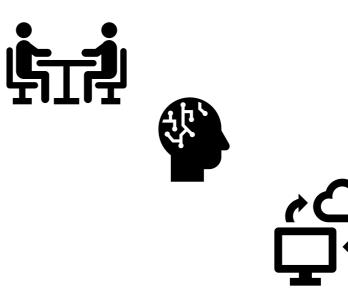


Does this appear usual ?

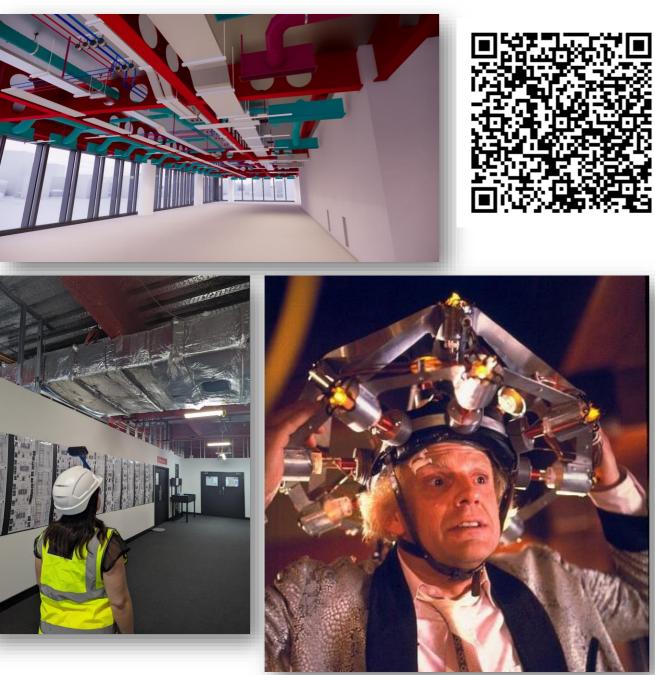


International Organization for Standardization

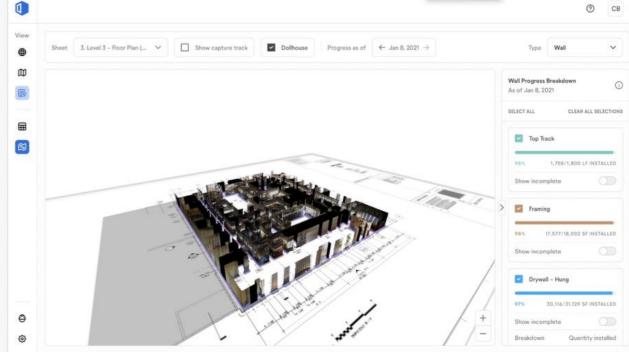
- People
- Process
- Technology

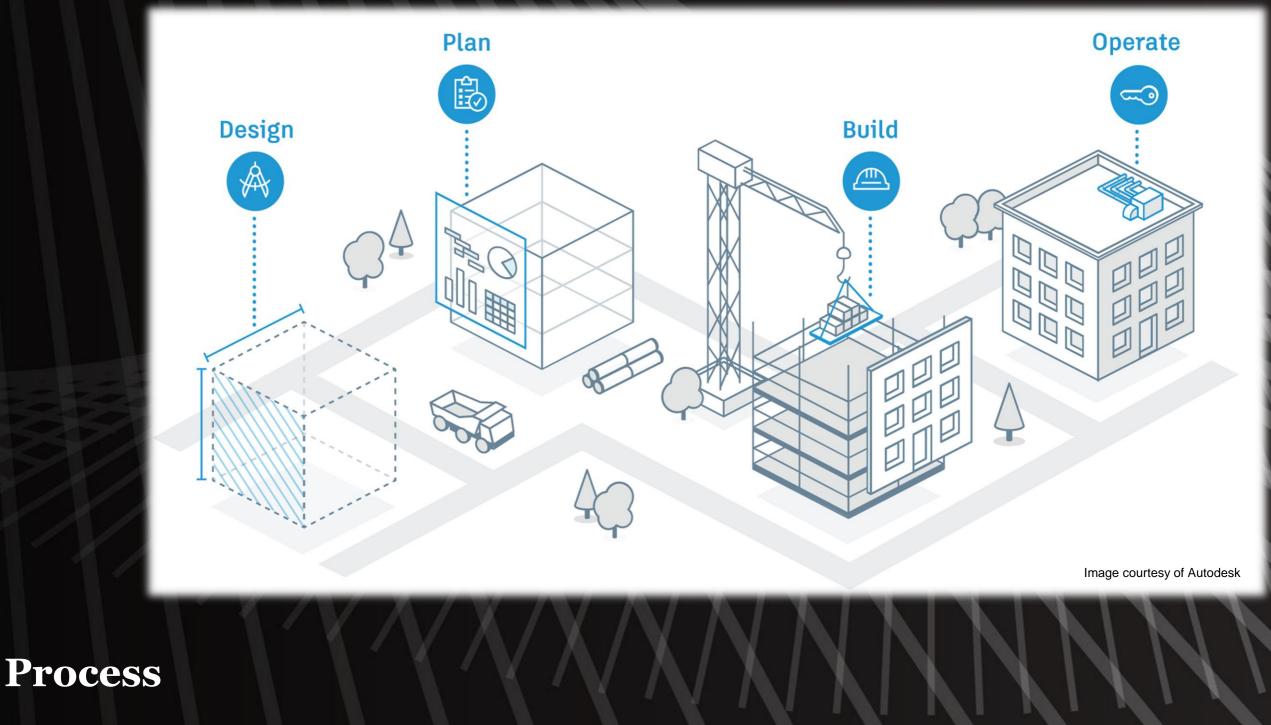


Technology, Is this what we think of?

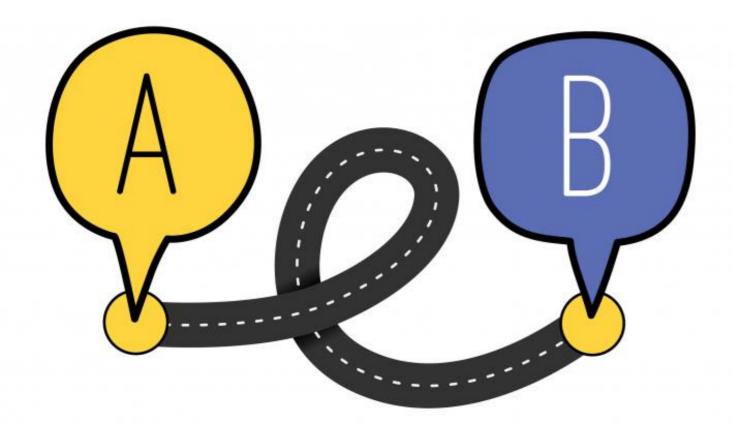


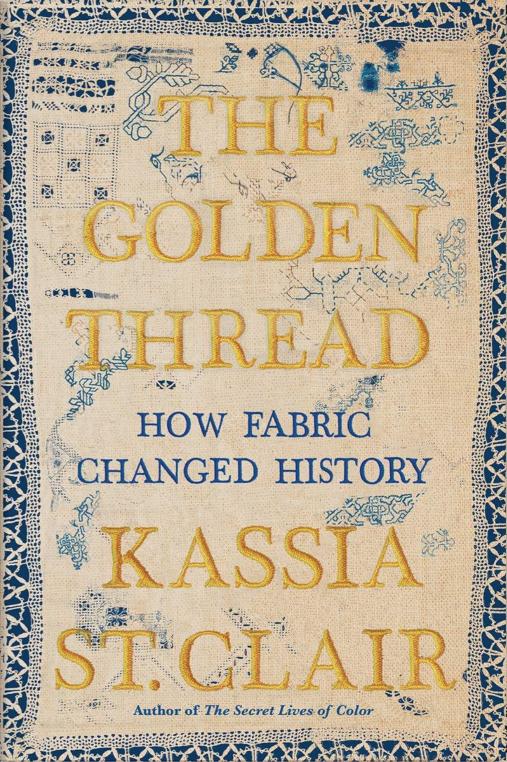






That Golden Thread (of information)













Its all about the journey

37 HOW FABRIC CHANGED HISTORY 1 4 4 4 4 4 Author of The Secret Lives of Color





Dr Stephen Hamil Innovation Director, NBS

Lining up a Golden Thread that works for everyone



Specification and the golden thread of information

Connected construction information

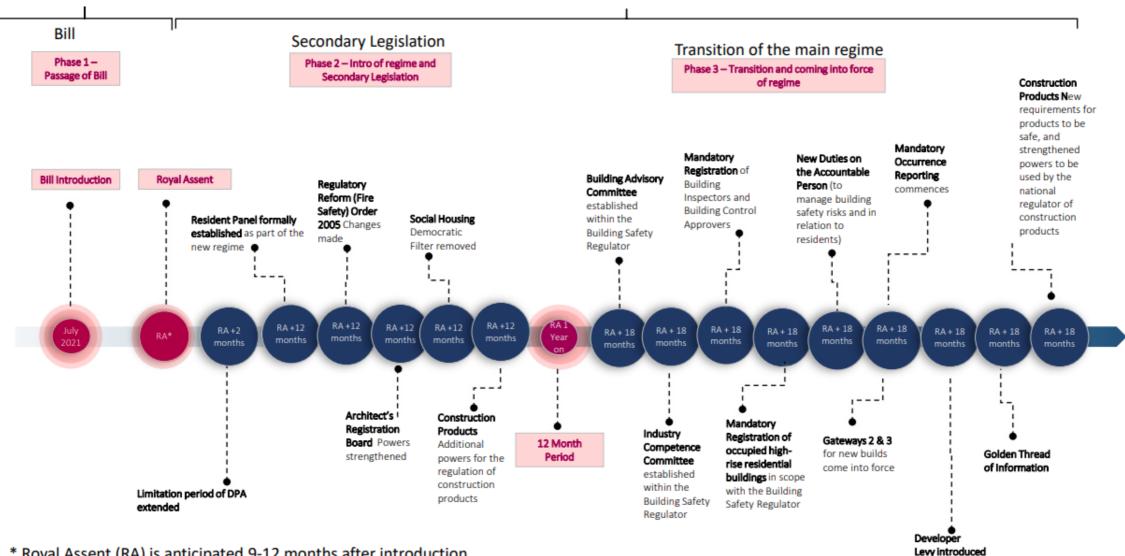


Dr Stephen Hamil

Innovation Director at NBS



The Building Safety Act



* Royal Assent (RA) is anticipated 9-12 months after introduction.

We intend for provisions marked RA + 12 months to come into force within six to twelve months of Royal Assent.

We intend for provisions marked RA + 18 months to come into force within twelve to eighteen months of Royal Assent.

Building Safety Bill & Transition

at Gateway 2

https://www.gov.uk/guidance/the-building-safety-act



Ss_75_70_28_29 Fire detection and alarm system Type A003

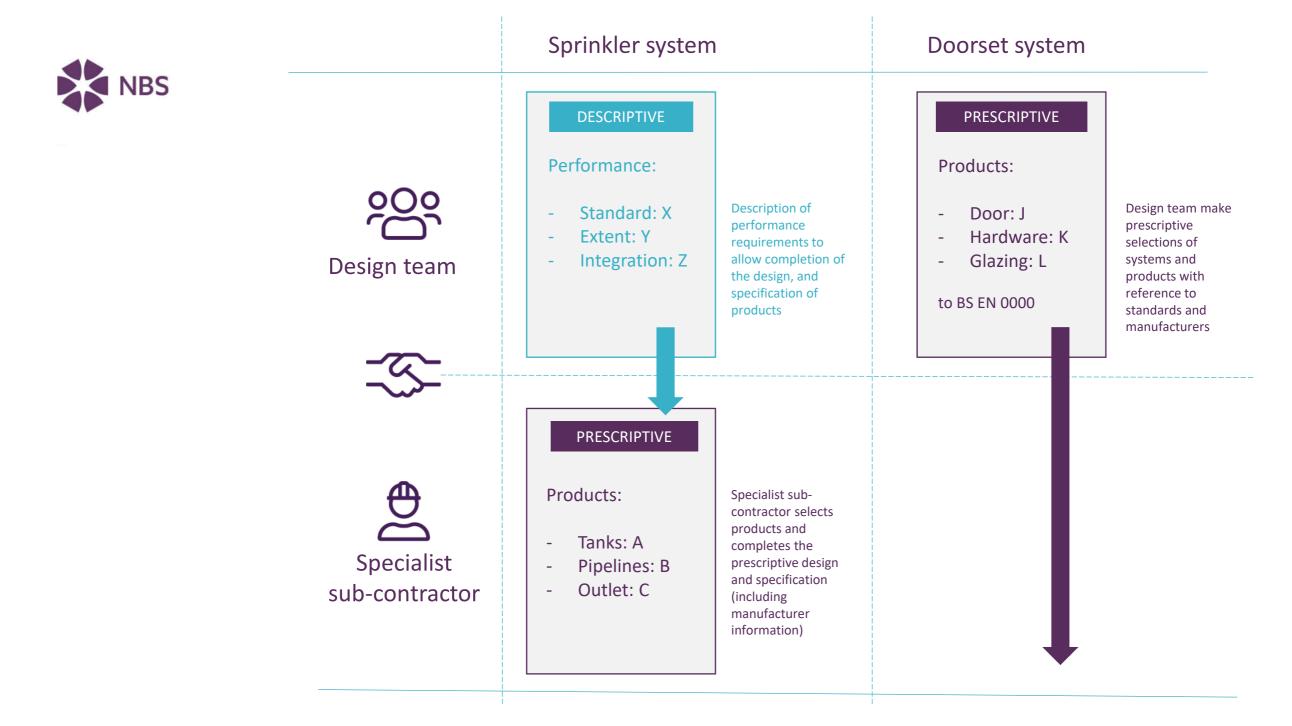
System outline

Description: Automatic fire detection system for all nondomestic facilities with visual alarms and sounders



Specification structure

Standard structure for a typical system in a technical specification



Descriptive and Prescriptive specification development

CPA – Code for Construction Product Information





FOREWORD

Manufacturers of Construction Products who choose to sign up to the "Code for Construction Product Information", are agreeing to abide by the clauses in this code to give confidence to those in the supply chain using their Product Information, that it is clear, accurate, up-to-date, accessible, and unambiguous. The Product Information can therefore be relied upon when making decisions about using those Construction Products at any stage of design, specification, installation, use, maintenance and disposal.

CONSTRUCTION PRODUCT:

- 1 Have in place a documented sign-off process for creating 'Product Information'.
- 2 Have in place a formal version control process for all 'Product Information'.
- 3 Do not use mis-leading or ambiguous wording, phrasing or imagery and embrace the use of plain English to ensure accurate representation of 'Product Information' and performance claims.

on-Product-Information-v1-0.pdf

WWW.

CONSTRUCTION PRODUCT: ASSOCIATED INFORMATION

- 8 Publish on your website and make easily accessible, clear information on handling, installation, operation, maintenance and disposal of 'Construction Products'.
- 9 For any guarantees/warranties used in 'Product Information', your website must state what is: covered, excluded and required to comply with its terms. The guarantee/warranty should be transparent and in a format recognised by the relevant sector of industry.

CONSTRUCTION PRODUCT:

CORE INFORMATION

- 4 Provide valid and demonstrable documentation where claiming compliance to, or achievement of, any Certification, Classification or Industry Standard.
- 5 Provide specific documentation when making any product performance claims outside of Certification, Classification or Industry Standard tests; which must be made available on request and shared in an appropriate timeframe.
 - Make available on your website the descriptive and physical characteristics of the 'Construction Product'
- Ensure all changes affecting 'Product Information' resulting from changes to the 'Construction Product' are identified and reflecting in revised 'Product Information'.



CONSTRUCTION PRODUCT: SUPPORT AND COMPETENCE

- **10** Ensure technical helpline contact details (telephone and/or email) are visible on your website.
- 11 Have in place a robust training programme (for new and existing personnel) to ensure that anyone conveying 'Product Information' is competent to the level of knowledge required for their role.

Ss_25_13_50_51 Masonry wall lea × +			
 C C C C chorus.thenbs.com/org/da0cea40-1153-11ec-9801-276e43e28889/project/1cdb1b00-413b-11ec-9f4 NBS Chorus Home / NBS Technical Solutions / Projects / Newtown Office Refurbishment / Refu 			⊥ * :
Contents > Content of 0 of 3 Ss_25_13_50_51 Masonry wall leaf systems		→ Guidance Products Org notes Spec notes	
 Pr_25_80_80_79 Sleeved mineral wool cavity barriers Discard 1 Description: 	Save	More products + Add to spec Siderise EW - Cavity Barriers and Fire Stops Masonry External Walls Siderise Group	s for
 2 General requirements: 3 Manufacturer: 4 Cavity barriers 4.1 Sleeves: 4.2 Attachment: 		 Last published: 25/10/2022. Last verified: 25/10/2022. 3 Contact manufacturer SIDERISE EW systems comprise a low resin content strinsulation core, which is pre-compressed internally to resilient strip. The material is faced on two sides with aluminium foil which is an effective smoke barrier. Features and benefits: 	tone wool 9 form a
5 Size:6 Residual cavity width:		Class A1 to EN 13501-1. Read more	
 7 Fire performance: 8 Sound insulation rating: 		Application The clause (2 variants)	~
		Third party certificates	~





Kate Hawkins

Pre-Contract Projects Director, Stanmore

Using technology to support compliance, measure progress and avoid waste



Using technology to support compliance, measure progress and avoid waste

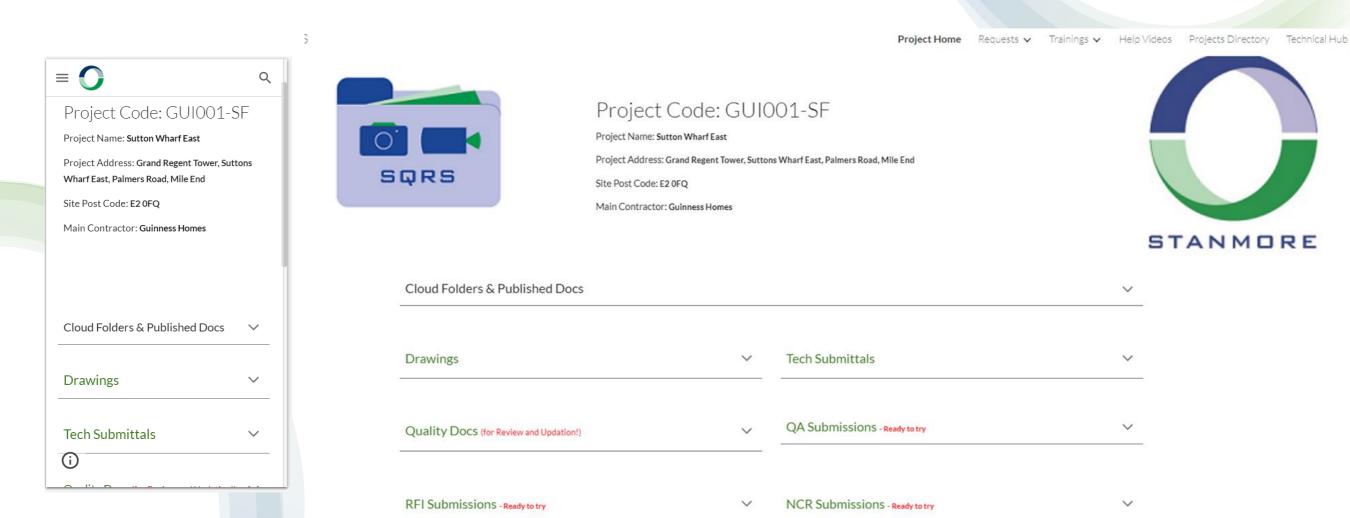






Stanmore Quality Recording System





Reporting / Monitoring





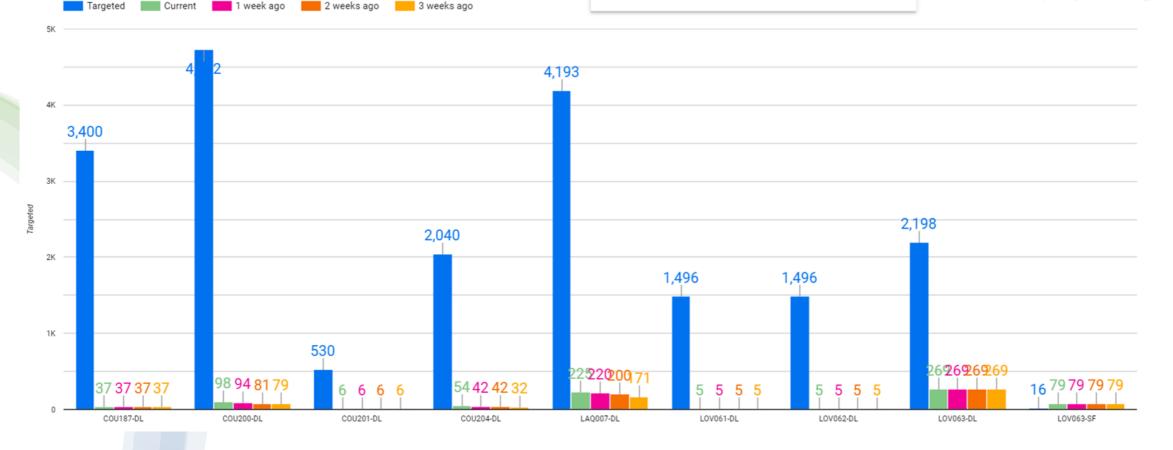
Stanmore Quality Recording System

QA Submissions Monitoring

Pick a Contracts Director: Darre... (1) -

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Stanmore

FACADE QA RECORD SHEET

Form Ref: SQRSv3_MSF DL01_v1

Issue: 2 QA Action: Submission Reviewed Form: Open

Check Description: RCM Y-Wall Board onto Light Steel Frame

1.1	Previous Issue (if any)	View Previous Issue PDF Record
1.2	Checklist Link (if any)	MSF 105/004 RCM Y-Wall Board onto Light Steel Frame
1.3	Project Code	GUI001-SF
1.4	Client Name	Guinness Homes
1.5	Project Name	Sutton Wharf East
1.6	Project Address	Grand Regent Tower Suttons Wharf East Palmers Road Mile End E2 0FQ
1.7	Block Reference	с
1.8	Floor Reference	L05
1.9	Elevation/Plot Reference	South
1.10	Plot Unique Reference	C/L05/South
1.11	Location References	Brickwork, Valcan Vitradual, Rockpanel A2 FS-Xtra
1.12	System or Drg References	EL-004, PL-001, PL-002, PL-003, PL-004, DE-001, DE-002, DE-003, DE-004

2.1 QA Evidence Files & Comments

Prelim Evidence Media Files & Comments	Review Evidence Media Files & Comments	
First fix complete	Installation quality insufficient	
Final Evidence Media Files & Comments	Supporting Information (if any)	

within 48hrs after issuing this Sign-off sheet. If no communication received during this period, Stanmore will deem it

as the acceptance of all completed works indicated on this Sign-off Sheet



Example QA Report

- Reports auto named
- Email notification with pdf attachment
- Traceability
- QR code on pdf to edit open status forms



Project Data

Images of the Adhesion Test

Sika Hyflex 250 Concrete Grey Sika Aktivator 205 Primed Face Powder Coated Aluminium Profile sample.

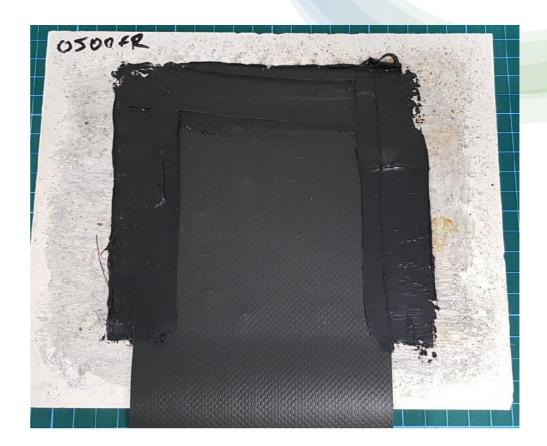
Sika Hyflex 250 Concrete Grey Un-primed Face Powder Coated Aluminium Profile sample.



Summary

Test B - Satisfactory adhesion was achieved to the face of the Powder Coated Aluminium Profile sample when tested in conjunction with Sika Hyflex 250 Concrete Grey primed with Sika Aktivator 205. Satisfactory adhesion was also seen on the un-primed face of the Powder Coated Aluminium Profile sample with Sika Hyflex 250 Concrete Grey.

Test C - Satisfactory adhesion was achieved to the face of the Powder Coated Aluminium Profile sample when tested in conjunction with Sika Hyflex 250 Concrete Grey primed with Sika Aktivator 205. Satisfactory adhesion was also seen on the un-primed face of the Powder Coated Aluminium Profile sample with Sika Hyflex 250 Concrete Grey.





Project Data



ALUMINIUM CLADDING - 7 Types

TYPE NUMBER	TYPE REFERENCE	FIXING TYPE	DESCRIPTION	APPLICATION	APPLICATION DESCRIPTION
1	F2	EJOT JT3 3 6.3 X 50	6.3MM DIAMETER STAINLESS STEEL SELF DRILLING SCREW – FIXES INTO ALUM/STEEL SECTIONS OF 1.2-3MM THICK	ALUMINIUM CLADDING	ALUMINIUM SOFFIT SUPPORT TO 3MM MAX ALUMINIUM / STEEL
2	F3	EJOT JT6 6 5.5 X 35	6.3MM DIAMETER STAINLESS STEEL SELF DRILLING SCREW WITH 16MM EPDM WASHER – FIXES INTO ALUM/STEEL SECTIONS OF 1.2-6MM THICK WITH CLAMPING THICKNESS OF 1.2-8MM	ALUMINIUM CLADDING	ALUMINIUM PROFILE TO 4MM THICK ALUMINIUM / STEEL
3	F4	EJOT JT3 FR 2H 6.3 x 25 S12	6.3 MM DIAMETER STAINLESS STEEL SELF DRILLING SCREW – WITH 12MM EPDM WASHER, 19MM LENGTH	ALUMINIUM CLADDING	COPING PROFILE TO TOPHAT SUPPORT BRACKET
3	F5	MAINLINE 5.0 X 12 X 14 - 6.0 - 8.0 (ALMG 5)	5MM DOME HEAD ALUMINIUM/STAINLESS STEEL RIVET COLOUR MATCHED TO PPC PROFILE WITH A GRIP	ALUMINIUM CLADDING	ALUMINIUM SOFFIT PANEL TO 3MM ALUMINIUM SUPPORT FRAME
3	F6	MAINLINE 5.0 X 12 X 14 - 6.0 - 8.0 (ALMG 5)	5MM DOME HEAD ALUMINIUM/STAINLESS STEEL RIVET COLOUR MATCHED TO PPC PROFILE WITH A GRIP	ALUMINIUM CLADDING	ALUMINIUM FLASHING TO FLASHING SUPPORT BRACKET
4	F7	MAINLINE SWLP/SD/S 5.5 X 35	LOW PROFILE STAINLESS STEEL 5.5MM DIAMETER TEK SCREW AS PER GENIUS PRIME TESTING DOCUMENTATION	ALUMINIUM CLADDING	15MM ALUMINIUM RAINSCREEN CLADDING PANEL SUPPORT CLIP TO 2MM HELPING HAND VERTICAL RAIL
4	F8	MAINLINE SWLP/SD/S 5.5 X 35	LOW PROFILE STAINLESS STEEL 5.5MM DIAMETER TEK SCREW AS PER GENIUS PRIME TESTING DOCUMENTATION	ALUMINIUM CLADDING	ALUMINIUM RAINSCREEN CLADDING PANEL HEAD FIXING INTO VERTICAL L/T RAIL
4	F9	MAINLINE SWLP/SD/S 5.5 X 35 S12	5.5MM LOW PROFILE DOME HEAD STAINLESS STEEL SELF DRILLING SCREW (<u>WITH 12MM SEALING WASHER</u>) COLOUR MATCHED TO FLASHING	ALUMINIUM CLADDING	ALUMINIUM FLASHING TO WINDOW FRAME
5	F11	EJOT JT3 6 5.5 X 50 S16	5.5MM DIAMETER STAINLESS STEEL SELF DRILLING SCREW WITH 16MM EPDM WASHER, 50MM LENGTH FOR 31MM CLAMPING	ALUMINIUM CLADDING	COPING SUPPORT TOPHAT BRACKET TO 4MM ALUMINIUM SUPPORT ANGLE
6	F69	NVELOPE 04/SDA5/5.5X22	5.5MM DIAMETER STAINLESS STEEL SELF DRILLING SCREW SPECIFICALLY SPECIFIED	ALUMINIUM CLADDING	NVELOPE HELPING HAND SYSTEM VERTICAL RAIL FIXING TO VERTICAL ALUMINIUM RAIL
7	F70	EJOT JT4 FR 4 5.5X19	STAINLESS STEEL SELF DRILLING SCREW	ALUMINIUM CLADDING	ALUMINIUM SOFFIT FLASHING @ JUILET BALCONY
8	F71	MAINLINE SWSH/SWLP/A4S 5.5 x 65 x 14-A4	5.5MM DIAMETER STAINLESS STEEL LOW PROFILE 65MM LENGH FIXINGS TO CLAMP SOFFIT C CHANNEL @	ALUMINIUM CLADDING	ALUMINIUM SOFFIT FLASHING @ JUILET BALCONY



Thank you for your attention





Bola Abisogun OBE Digital Director, BIM Academy

How do we all contribute to a whole building approach?







Bola Abisogun OBE

Digital Director, BIM Academy Chartered Surveyor [PQS]

Golden Thread & Smarter Assets; how do we deliver and sustain them?

where 'As-Built' becomes 'As-Managed'

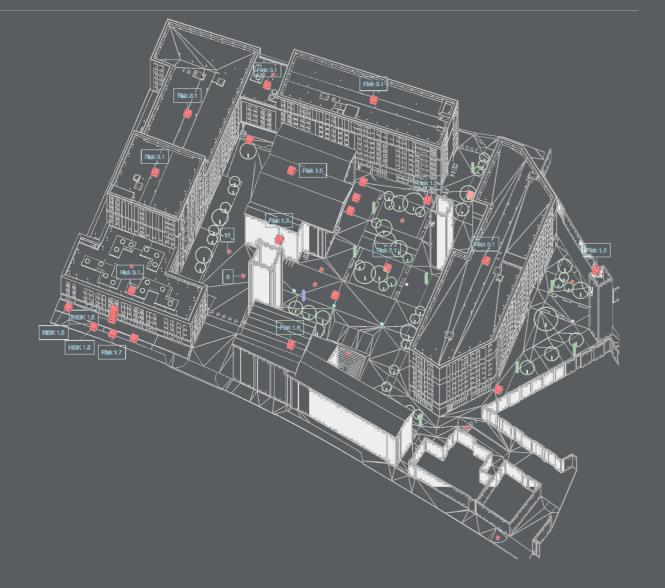
@bimacademy

Golden Thread

Introduction

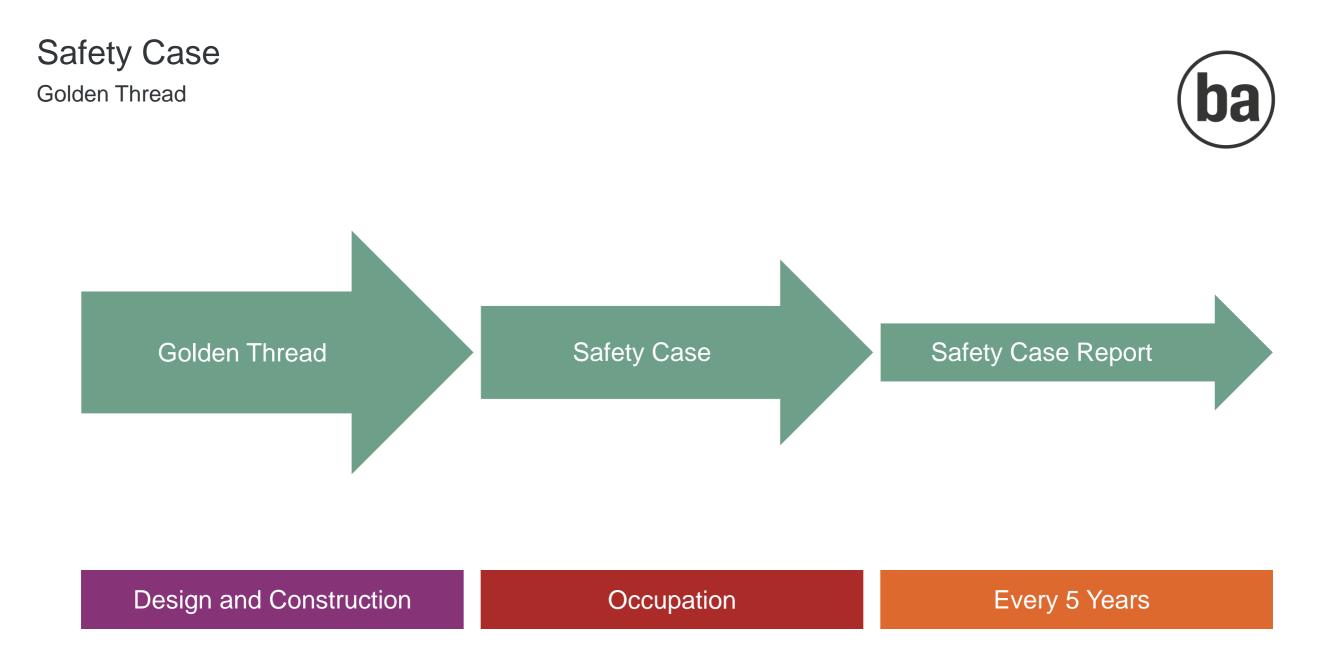
Golden Thread





"The Golden Thread is the information that allows you to understand a building and the steps needed to keep both the building and people safe, now and in the future."

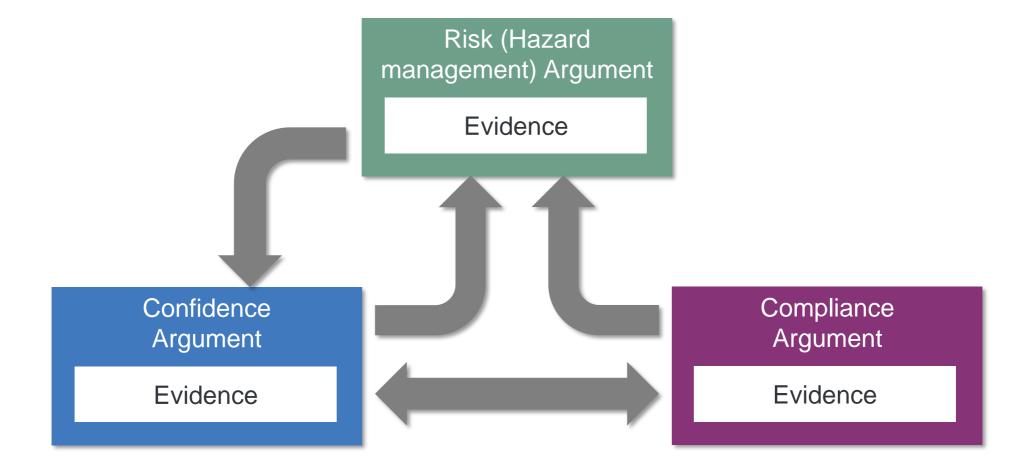
The Golden Thread will be held digitally to ensure that the original design intent and any subsequent changes to the building are captured, preserved and used to support safety improvements.



A Structured Argument

Golden Thread

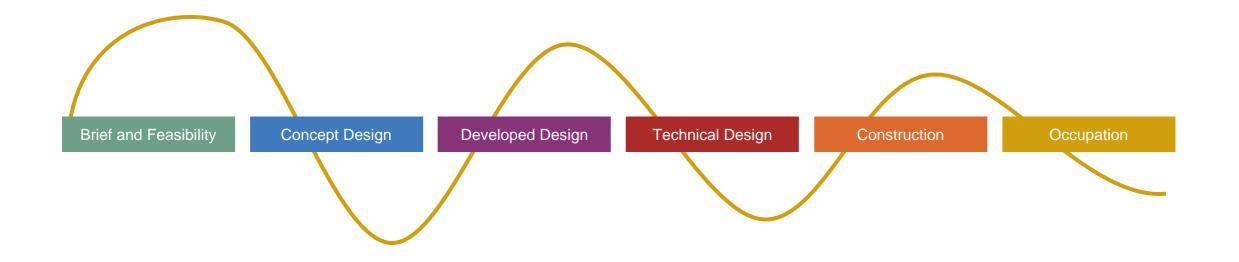




A Single Source of Truth

Golden Thread





(Distributed) Common Data Environment

Information Strategy and Requirements

Golden Thread

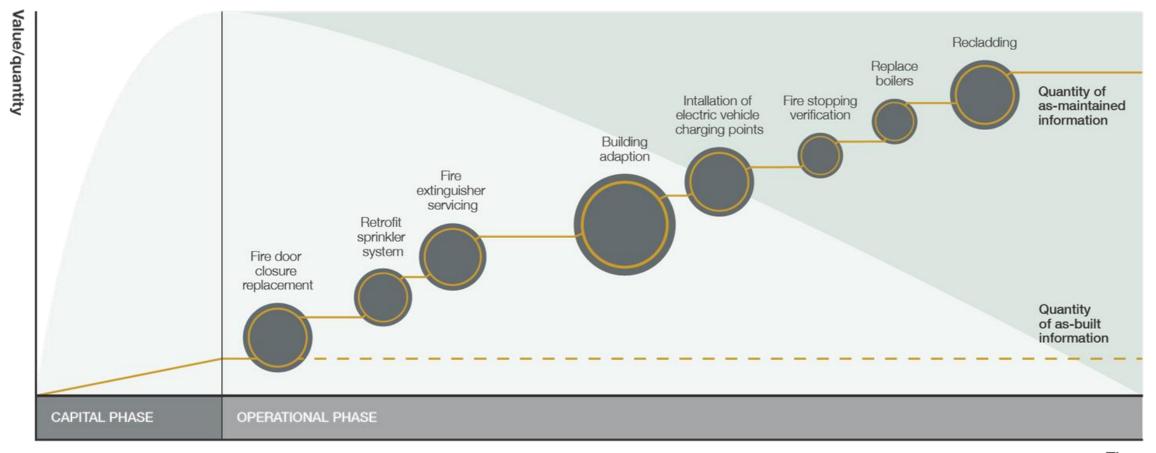




Information Migration

Golden Thread





Value of as-built information

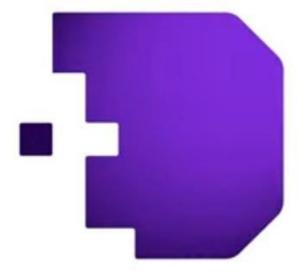
Value of as-maintained information

Time

Digital Skills Requirement

Golden Thread





Digital Twin Skills Academy











Iain McIlwee Chief Executive, Finishes and Interiors Sector

Developing your Digital Strategy

It's about information management...





We They

Product Data Sheet

Performance parameters determined by test

Performance parameters determined by assessment

Declaration of Performance (data)

Constitution/detals of parts where not proprietory

LCA/EPD

Materials Health

REACH/Chemical

Product Passport

Installation record (including who and any detailing issues)

Service/maintenance record (Facilities Management)

Details of location and category of use

Asset Management System

Integration with wider building information

Digital twin data

Pre-populated strip-out audit for refurbishment

Alignment with any Building Passport



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Panel Debate



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We'll be right back

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