

BOPAS

Buildoffsite Property
Assurance Scheme

BOPAS Forum and HadleyFRAME Factory Tour

11 June 2026

Supported by



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@BOPASorg

#MMC #Constuction

Welcome and introduction



Tam Simmons

Executive Director
BUILDOFFSITE

Programme

- 10:55 Introduction to HadleyFRAME
- 11:10 BOPAS certificate presentations
- 11:20 Barratt's experience of implementing Industrialised Construction
- 11:35 Panel session and Q&A
- 12:15 Factory tour
- 13:15 Networking lunch
- 14:00 Forum concludes

BOPAS

Buildoffsite Property
Assurance Scheme

BOPAS OVERVIEW

- Launched in 2013 to address concerns and perceived risks of innovative construction.
- Developed by BOS, LRQA, BLP, and RICS to provide essential property assurance.
- Recognised by lenders as ensuring MMC-built homes are mortgageable for at least 60 years.



BUILDOFFSITE

- Established in 2004 to champion offsite and pre-manufactured solutions across the built environment.
- Collaborates with members, government, and industry stakeholders to facilitate adoption and drive meaningful change.
- Aims to 'normalise' Modern Methods of Construction (MMC) by enabling greater project delivery and removing perceived barriers

BUILDOFFSITE members

BOPAS

Buildoffsite Property Assurance Scheme



APPLY *DfMA*



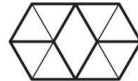
ARUP

ASDA

bsi.

C-PROBE

CIOB



Department for Business, Energy & Industrial Strategy

Ministry of Housing, Communities & Local Government

Department for Transport

Edinburgh Napier UNIVERSITY



GSK



Heathrow

HEMSPAN®

Homes England



HS2



Infrastructure and Projects Authority



KFC



LRQA

Ministry of Defence

Ministry of Justice

national highways



NORTHUMBRIAN WATER *living water*

RIBA Architecture.com



SUPPLY CHAIN SUSTAINABILITY
SCHOL



theoffsitguide

Transport for London



United Utilities
Water for the North West

UNIVERSITY OF CAMBRIDGE



Dŵr Cymru Welsh Water



BOS and Lobbying

- Contributed to skills roundtable hosted by APPG for Excellence in Built Environment (manifesto policy on skills)
- Contributed to parliamentary report launch event - APPG inquiry into building 1.5million quality homes and engaged APPG Chair Mike Reader MP
- Chaired industry roundtable on developing a pilot project for matching demand and supply aimed at unlocking pipeline (Manifesto policy on pipeline).
- Submitted pilot project recommendation report to Mike Reader MP.
- RICS hosted BOPAS workshops on reviewing accreditation in the light of growing needs within the Industrialised Construction (IC) sector
- BOS Client Group Chair Calum Barrett (TfL) hosted roundtable on implementing recommendations from BOS guidance on performance specifications and IP (Manifesto policy on procurement and innovation)
- Developing funding proposals for MMC adviser and upskilling programme (Manifesto policy on skills)
- Starting search for Net Zero Carbon Champions in MMC and IC (case studies) which will be presented to Government (Manifesto Policy on sustainability)

BOS and Standards

- BSI Committee CB301 – Working on Standards Development for Offsite and Modern Methods of Construction
- Links into ISO 25084 – ISO/TC 59/SC 19 - Prefabricated Buildings
- Developing standard terminology for prefabricated buildings (input from USA, China, France & Spain amongst others)

Events

- Explore Offsite Conference – 15-16 September
- BOPAS Forum and Greencore Factory Tour – 2 December

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Thank you to our host



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Introduction to Hadley Group



Steve Chesters

Business Unit Director
Hadley Group



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BOPAS Forum & Factory Tour

From manufacturing capability to scaled delivery

Manufacturing Capability

What capability sits behind HadleyFRAME and how it supports construction.



MMC + IC Principles

What we have learned from delivering solutions that need to be repeated, assured and scaled.

Repeatable Delivery

How a structural system moves from modern method into an industrialised operating model.



GLOBAL ORGANISATION





7 manufacturing hubs, servicing **36** countries,
across **5** continents with **70+** rolling mills,
rolling over **100,000** tonnes per year



United States
CDH CUSTOM ROLL FOIL
OHIO

United Kingdom
HADLEY GROUP HQ
SMETHWICK

Europe
HADLEY CUSTOM
ROLLFORM
NETHERLANDS

United Arab Emirates
HADLEY GROUP
DUBAI

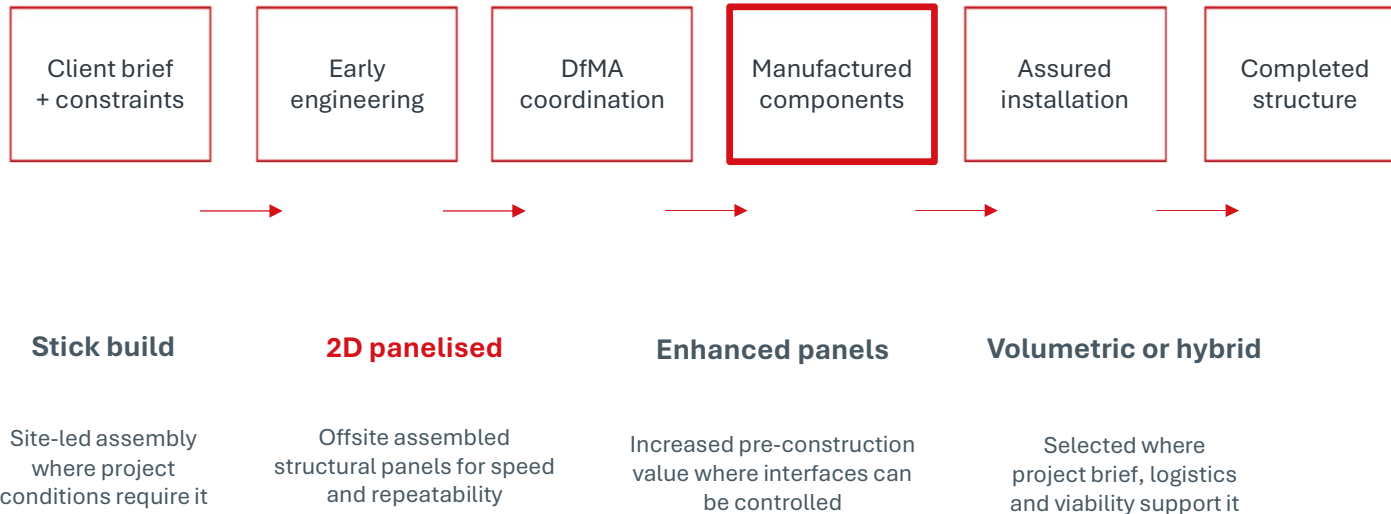
Asia
HADLEY GROUP
THAILAND

HADLEY CUSTOM
ROLLFORM (incl. UltraSTEEL)
SMETHWICK

HADLEYFRAME & HADLEY
BUILDING PRODUCTS
OLDBURY

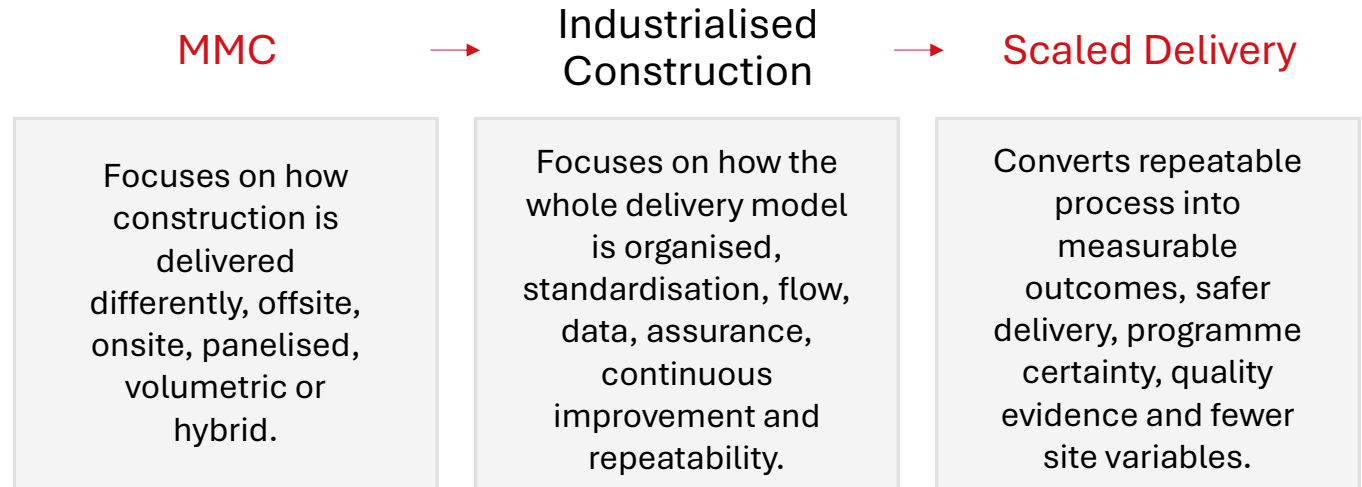
IC - Application in structural systems

The same manufacturing platform can support different levels of project integration





MMC is the method, IC is the operating model



For HadleyFRAME, the progression is not about making every project identical. It is about creating controlled repeatability, while retaining enough design flexibility to make projects viable.

Dynamic Solution

Build Methodology

Stick Build

Offsite Panels

Enhanced Panels

Modular

Developer

Principal Contractor

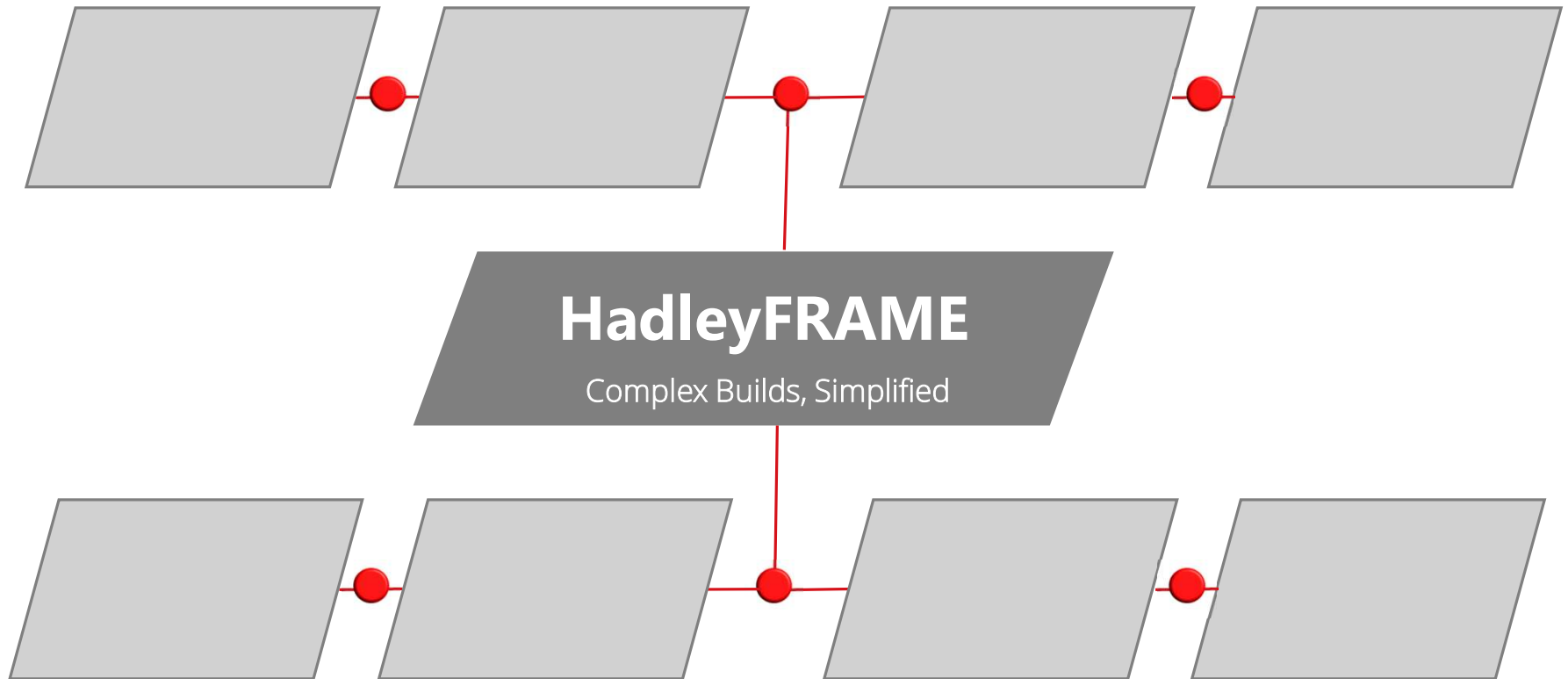
Main Contractor

Sub-Contractor

Contractual Engagement

*The philosophy of HadleyFRAME is to provide a solution that best facilitates the project. Flexing the delivery method and form of contract, to **Make Projects Viable**.*

Dynamic Solution



Purlins & Mezzanines

- Ultra Zed Purlins
- Cladding Rails
- Mezzanine
- Accessories





Steel Framing Systems (SFS)

- Infill
- Continuous
- Load bearing
- High Bay Walls

HadleyFRAME

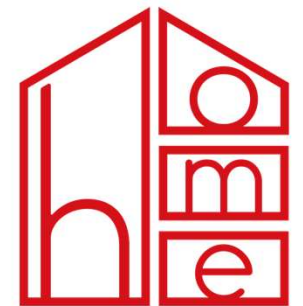
- Panelised structures (to 15 storeys)
- Concrete Floors
- Lift shafts & stairs
- Fast delivery. Minimal Labour.





HadleyHOME

- Fully Modular Structures
- Offsite Manufacture
- Minimal Onsite Time
- High Standards



FloodSAFE

- Sensor triggered jack system raises the home upon detecting a water event
- House raised to a maximum of 1.8m protecting the building fabric from flash flooding
- Developed in partnership between Hadley Group and Flood Jack International
- Releasing restricted land and bring the potential for millions more homes



Repeatability starts before manufacture

Design freeze

Clear information, controlled change and known interfaces

Interface discipline

Structure, façade, fire, MEP, acoustics and follow up trades aligned early

Product information

Drawings and data translated into work instructions and repeatable checks

Quality gates

Evidence captured at manufacture, dispatch and installation

Feedback loop

Site learning brought back into design, procurement and production

Insights from delivering scalable solutions

1. Standardise the process before standardising the building

Different sites can still benefit from a repeatable delivery format

2. Protect interfaces as much as components

Failures often occur between packages, not inside the frame itself

3. Make evidence part of delivery

Quality records and traceability should be created immediately

4. Design for logistics and install

Manufacturing efficiency is wasted if site sequence and access are not aligned

5. Use feedback as operational data

Different sites can still benefit from a repeatable delivery format



FERRYSPEED

DENNISON

PFF1333

GREEN STREET

buses and
tricycles

Flow

How material, information and components move through the facility.

People

How manufacturing skill, site experience and engineering judgement work together.

Control

Where tolerances, inspections and production checks are built into the process.

Logistics

How finished panels become an installable sequence, not a pile of parts.

Traceability

How evidence is created before components reach site.



Welcome to the factory!



BOPAS certificate presentation



Introducing EDAROTH

edarōth[®]

by AtkinsRéalis

AtkinsRéalis - Baseline / Référence

The Housing Crisis



HOUSING TARGET

300,000

HOMES PER YEAR



BUILT IN 2025

170,000

INCREASE
REQUIRED

76%

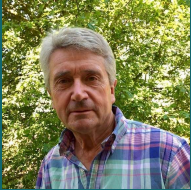
PANEL SESSION

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Industrialised Construction – From Concept to Scaled Delivery

MEET THE PANEL

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Terry Mundy
BOPAS



Steve Chesters
Hadley Group



Oliver Novakovic
Barratt Homes



Mike Ormesher
Ottersbrook Ltd



Dr Ali Saad
Loughborough University



Eva Magnisali
DataForm Labs

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Register for the next BOPAS



2 December 2026

BOPAS Forum & Greencore Factory Tour