

# NG BAILEY GROUP

# Industrialised Healthcare

PASSION | INTEGRITY | RESPONSIBILITY | EXCELLENCE



#### Introductions



Head of Growth & Development

**Graeme** Brady Engineering Manager

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#### Who are NG Bailey?

We're proud to be the largest independent provider of engineering and infrastructure services in the UK, delivering innovative solutions across our chosen sectors.



We're a family-owned business with approximately



united by shared values and a commitment to excellence. We're known for consistently delivering high-quality flagship projects and services,

while always operating with integrity and doing business in the right way.



We have been pioneering the use of Offsite Manufacture for



and we provide offsite solutions through our specialist production facility in Yorkshire, the largest of its kind in the UK.





# **Evolution of Offsite**







### Industrialised Construction - The Golden Thread

#### **Our Explanation**

Industrialisation will be the **golden thread** for all the initiatives that the industry / business are trying to utilise.

A truly integrated approach will remove significant waste from all stages of the project delivery and significantly improve both on and off site productivity.





# Our offering

Our Offering explained - Supporting our route from 100% bespoke



#### Our Journey from 100% Bespoke to a Fully Industrialised Offering





#### **Process Overview**







#### **Process Overview**







#### **Benefits of Industrialised Construction**

Offsite manufacturing delivers construction solutions Safer, Better, Faster, Greener using Modern Methods of Construction (MMC)...





#### FASTER

Increase productivity, clear logistics plan and utilisation mapping



GREENER

Make a responsible impact on the NG Bailey Net Positive Strategy





### Health and Safety



Safety First and Foremost Culture





# Examples of our solutions

# In Healthcare Delivery

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## Examples of our solutions in healthcare delivery

#### <u>Heavy</u> duty service distribution modules

Example: Darlington Memorial Hospital's new surgical theatres expansion – redesigned the services distribution, avoiding a costly plantroom extension

#### Risers

Example: Standard solution on all healthcare schemes >3 storeys. At Aberdeen ECC we installed 10 major multi-service risers c/w structural frames along with over 400 partition-head HDSM's

#### Plant rooms and plant skids

Example: Sheffield Critical Care, we manufactured entire 900m2 plantroom offsite - installation took just five days instead of five months

#### Spool pipework and valve modules

Chesterfield Hospital's 11 refurbished theatres – premanufactured spool components as a 'kit of parts' and only one theatre taken out of operation during installation



**G** Bailey









#### Case study

#### **ARI partition-head modules**

#### Aberdeen Royal Infirmary Emergency Care Centre

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- **£115m 11-storey emergency care centre** located at the heart of the busy hospital estate
- Deliveries needed to be reduced to avoid disrupting the vital day-today services of the hospital
  - All corridors designed as heavy duty service distribution modules complete with plasterboard head partitions
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- **400 multi-service corridor modules**, 10 M&E risers, and rooftop and basement plant modules
- All modules completed offsite to a higher specification than could be a achieved on-site
- All fire stopping and acoustic treatment applied within the factory environment, fully certified
- Also significant reductions in deliveries, improved site safety, and significant cost and programme saving.



The offsite module solution was the right one for this project and is the way forward. We focused on getting each part of the solution ready early from the right design through to logistics planning. The joint effort with NG Bailey has gone really well.

Graeme Smith, Project Director, NHS Grampian



#### Case study

# **Nightingale Hospitals**

In 2020, NG Bailey Offsite stepped up to help the UK fight against the Coronavirus pandemic.

We delivered three sites in Manchester, Cardiff and Harrogate.

#### Offsite delivered over:

22,000 electrical outlets
3,000 prefabricated bed head units
470 pipework modules
70 water heaters
70 hand sanitiser stations

Completed products were coming off the assembly line every three and a half minutes.

Collaborative effort between our Engineering and Services divisions.









# Our 'kit of parts' approach

# The Forge, Sumner Street

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### The Forge – Kit of Parts

Cat A Summary	
	Total
No of Module Types	5
No Qty Module Variants/Types	171
Total Qty of Modules	4658
No Of Sub Assembly types	13
Total Qty Sub assemblies	15894



540 CHW-F

35Ø LTHW-CT-F

220 CHW-F 150 LTHW-CT-R

41x41 Unistrut

350 LTHW-CT-F

Linear Lighting -1200x100x95 (L

540 CHW

#### FCU modules 61 variants 360 total qty

Pipework modules 50 variants 280 total qty

**Comflor modules** 24 variants 1,273 total qty

**Ceiling modules** 20 variants 2,594 total qty





## The Forge – Kit of Parts















