### HTS+ Re-Use of Steelwork - Holbein Gardens, October 2022

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### Steel Reuse at Holbein Gardens

+ Steel reuse accounting for 35% of steelwork





#### Donor Site Steel

Stock Steel

### **Existing Building**

- + Mansard roof steels boxed in
- + Columns concrete encased

#### Current Site

#### (Incorporated in design RIBA Stage 2 & 3)



Steel for potential reuse at Holbien was identified by HTS.

Measured survey provided approximate lengths, HTS measured steel sizes and undertook visual inspection of steelwork.



Demolition undertaken in a controlled manner for steel reuse.











<u>Or</u>

Steelwork stored for future builds by client.

Sold



Existing Building Steels



Demo Isometric



### Bermondsey Biscuit Factory Site

- + Deep beams or castellated beams
- + Steel from existing trusses
- + Concrete encased steelwork
- + Compositely designed steelwork



Compositely designed steelwork







Castellated/deep beams



Compositely designed steelwork

### Bermondsey Biscuit Factory Site

- + Steels from a small mezzanine
- + Bolted connections
- + Minimal finishes
- + Repetitive sizes







Steel beams and columns forming mezzanine



### Extracting the steel from Bermondsey (9T)

- + Steel removed out of sequence with demolition programme
- + H&S required steels to be supported on scaffold tower prior to being unbolted
- + Added a significant additional cost





#### Steelwork Survey Notes

### Steelwork from stockist

use.

- + Stock lists confirm available steels
- + Working with Cleveland Steel to confirm steel that could be substituted in

![](_page_6_Figure_4.jpeg)

![](_page_6_Picture_5.jpeg)

#### **Cleveland Steel Stock**

NOM         CLE         PAO         Cont         Cont         Cont         Cont         Cont         Cont         Cont         Conting         Defect           BBarn No.         PO. No.         Section         Length         Quality         Condition         Ends         Coating         Defect1           S800714         502006 UB35617145         6400         4 SECONDHAND         7 PAINT REQUIRES REPAIR         O NO INPUT         3 PAINTED         2 ATTACH           S800714         502006 UB35617145         6400         4 SECONDHAND         7 PAINT REQUIRES REPAIR         O NO INPUT         3 PAINTED         2 ATTACH           S800714         501972 UC20320346         1550         1 IST CHOICE WITH CERTS         2 STOCK RUSTY         O NO INPUT         0 NOINPUT         0 NO INPUT           71600         501972 UC20320346         9500         4 SECONDHAND         6 PAINT IN GODD ORDER         1 PLAIN         3 PAINTED         6 HOLES           71601         501972 UC20320346         9500         4 SECONDHAND         6 PAINT IN GODD ORDER         1 PLAIN         3 PAINTED         6 HOLES           71602         501972 UC20320346         9360         4 SECONDHAND         6 PAINT IN GODD ORDER         1 PLAIN         3 PAINTED         6 HOLES           <	NULLA	CDF		DBO	12	101		010	-		_	ACD			EVT	-		DVC	-		DF1		
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#### Cleveland Steel Stock List

![](_page_6_Picture_9.jpeg)

### Steelwork from stockist

- + Cleveland Steel appointed to carry out both supply and fabrication of steelwork
- + Able to substitute in stock steelwork late on when it became available

![](_page_7_Picture_4.jpeg)

Old US embassy temporary works where much of the steel originated

![](_page_7_Picture_6.jpeg)

![](_page_8_Figure_1.jpeg)

![](_page_8_Picture_2.jpeg)

# How was the reused steelwork incorporated into the design

+ Project steelwork split into two packages, enabling and main works, only the main works were considered for reuse

![](_page_9_Picture_3.jpeg)

![](_page_9_Picture_4.jpeg)

# How was the reused steelwork incorporated into the design

- + Design team reactive to what was available
- + Flexibility to change steel sizes until late into the design stages (stage 5)
- + Willingness to incorporate different steel sizes (such as European HE sections)
- + Engaged with Cleveland Steel at stage 4 and continuous dialogue
- + Getting the contractors on board
- + Larger steel sections were not possible to obtain, so focus on tie beams, columns and smaller spans

![](_page_10_Picture_8.jpeg)

![](_page_10_Picture_9.jpeg)

#### Implications of reused steel on design

Designing with reused steel is straightforward

#### **Design considerations**

- + Design using SCI P427 Structural Steel Reuse Assessment, Testing & Design Principles
- + Additional 15% factor applied to buckling checks (columns) but otherwise code safety factors for new steel can apply
- + Early stage design should consider historic grades of steelwork (S275 or before)
- + Ensure to maintain high utilisation of steel section

#### Practical considerations

- + Consideration of any damage and previous holes in steel
- + If pre-demolition, then account for ends of steels being cut off when demolished
- + Excludes members subject to fatigue, plastic design, extreme loads (fire, impact) and pre-1970

SCI PUBLICATION P427

### STRUCTURAL STEEL REUSE

ASSESSMENT, TESTING AND DESIGN PRINCIPLES

D G Brown BEng, CEng, MICE R J Pimentel MEng, MSc M R Sansom BEng, PhD, CEnv, MICE

![](_page_11_Picture_16.jpeg)

![](_page_11_Picture_18.jpeg)

### Lessons Learnt for the Design/ Procurement phase

- + Keeping supply chain simple
- + Agree how steel procured and timeframe for considering stockists with client
- + Educate the tendering contractors
- + Educate clients on what the steelwork will look like

![](_page_12_Picture_6.jpeg)

![](_page_12_Picture_7.jpeg)

![](_page_12_Picture_8.jpeg)

![](_page_12_Picture_9.jpeg)

#### Lessons Learnt for the Design/ Procurement phase

- + Loose fit design and flexibility for size. Set out some rules for sizing with architect.
- + Smaller grids = shorter lengths of steelwork required.
- + Don't count on certain steelwork sizes being available,
- + Avoid specifying steel grades. Specify performance criteria
- + Avoid using a section much heavier than it would be new. Material should be minimised even if it is reused
- + Avoid transfers and fabricated beams
- + Connections will often need to be from new steelwork

![](_page_13_Picture_9.jpeg)

![](_page_13_Picture_10.jpeg)

#### HEYNE TILLETT STEEL

#### B1 d = 400-475mm b = N/A fy\*Wpl,yy = 530kNm fully restrained fy\*Wel,zz = 60kNm fully restrained lyy = 40,000 cm4 lzz = 1,000cm4

#### Lessons Learnt for the Design/ Procurement phase

- + When extracting steel from another building think about quality of steel that is to be extracted.
  - + Avoid pre 1970s steelwork
  - + Avoid encased steelwork
  - + Composite steels can be extracted but may come with a cost uplift
  - + Think about lengths
  - + Factor in reduced section if damaged

+ Time, cost and embodied carbon of extraction should be considered. Doesn't always make sense to reuse

![](_page_14_Picture_9.jpeg)

![](_page_14_Picture_10.jpeg)

Extracted Steels from One Broadgate (Cantillon)

# Quantifying the Carbon Savings

### **Reused steel**

+ Research by EMR shows reusable steel EPD for A1-A3 of 0.047kgCO<sub>2</sub>e/kg

![](_page_15_Figure_3.jpeg)

![](_page_15_Picture_4.jpeg)

# REUSABLE STEEL ENVIRONMENTAL PRODUCT DECLARATION

IN ACCORDANCE WITH ISO 14025 AND EN 15804:2012+A2:2019

Programme The International EPD® System www.environdec.com	Programme Operator EPD International AB	<b>S-P Code</b> S-P-06356
Revision Date 2022.07.22	Publication Date 2022.06.27	Validity Date 2027.06.26

An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com

![](_page_15_Picture_9.jpeg)

![](_page_15_Picture_10.jpeg)

Cradle-to-gate

![](_page_15_Picture_13.jpeg)

![](_page_15_Picture_14.jpeg)

# Quantifying the Carbon Savings

#### Embodied carbon of reused steel at Holbein Gardens

- + Average figure taken for Holbein Gardens (once fabricated) of 0.3kgCO<sub>2</sub>e/kg
- + HTS report total carbon saving of 35T compared to a total A1-A5 carbon of 975T

1.7 kgCO<sub>2</sub>e/kg

![](_page_16_Picture_5.jpeg)

0.047 kgCO<sub>2</sub>e/kg

Supply reused steel (EMR EPD) (A1-A3)

New steel work + fabrication (A1-A5 blended)

![](_page_16_Picture_10.jpeg)

### 0.3 kgCO<sub>2</sub>e/kg

Average reused once fabricated (A1-A5)

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![](_page_17_Picture_2.jpeg)

![](_page_17_Picture_3.jpeg)

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