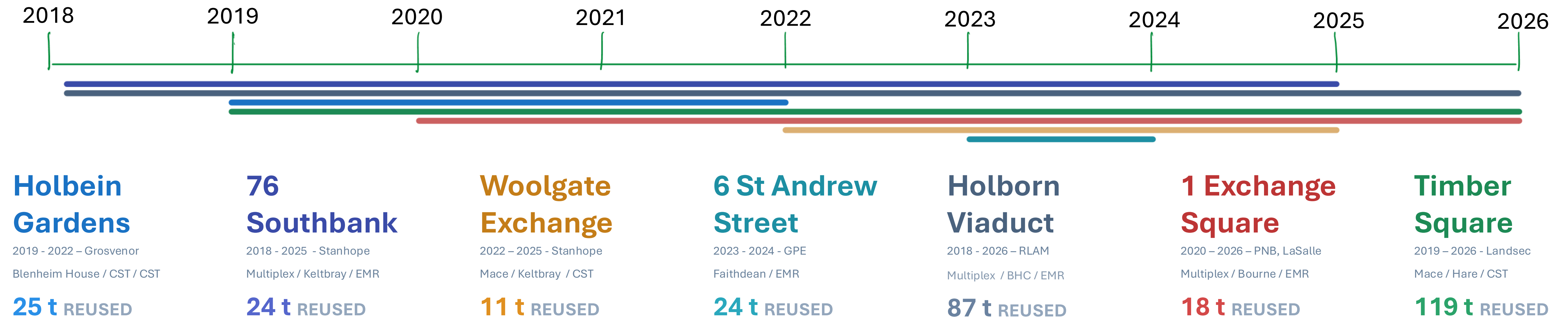


Making reuse second nature

Insights from reusing 300 tonnes of steel across seven projects



Enablers

Reuse written into the specifications

This is the highest-impact enabler. Projects with tonnage obligations resulted in delivery, while ones with vague ambitions were dropped under pressure.

→ Timber Square, 6 St Andrew Street

Commitment from the client

Projects where reuse was properly costed and where deposits were made resulted in reuse being much more likely to survive later stage challenges.

→ Holbein Gardens

Only matching stock at procurement

Matching reused stock only at procurement resulted in a deliverable list and avoided continuously moving targets and redesigns.

→ Holbein Gardens, Timber Square

Good stock records

Element-specific defect records led to stock being properly vetted before procurement, removing resistance to reused steel.

→ 76 Southbank, 6 St Andrew Street

Accepting grade S275 steel

Understanding where prospective reuse elements are deflection-governed allowed the use of S275 steel instead of S355 without spending too much time on redesign.

→ 76 Southbank, Woolgate Exchange, Holborn Viaduct

Blockers

No obligation on the contractor

Despite expectations from the client, in projects where there was no obligation in the contract, reuse quietly slid into single figures or disappeared entirely.

→ Woolgate Exchange, 76 Southbank

Administrative misalignment

Misaligned element IDs between parties led to high administrative burden, resulting in missed opportunity and lower reuse tonnages.

→ 1 Exchange Square

No float in the programme

Tight programmes resulted in reducing or abandoning reuse targets on certain projects.

→ Woolgate Exchange, others where reuse explored but not taken forward

Tolerances and (certain) coatings

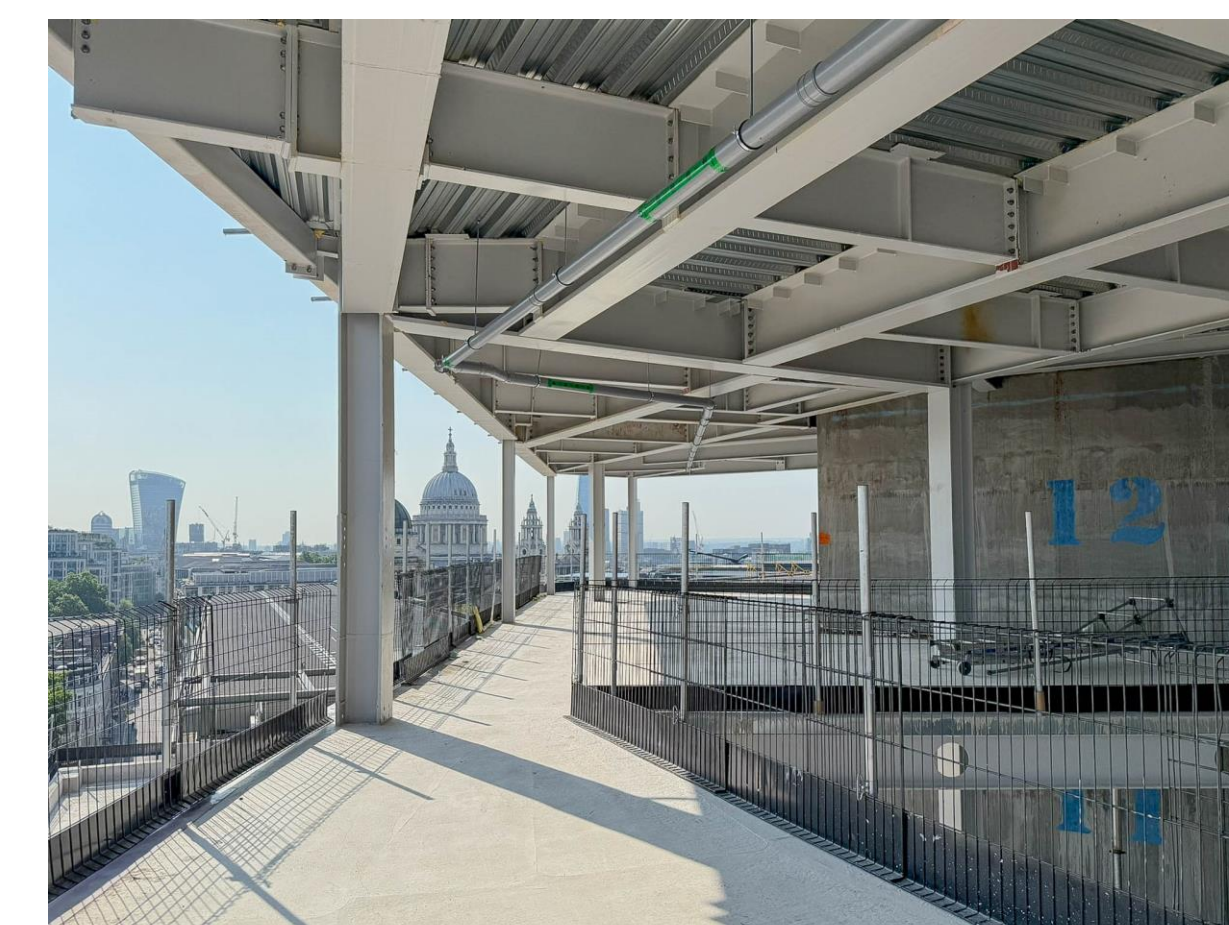
Putting ambitious volumes of reused steel with existing fittings through automatic fabrication lines led to clashes with the precise machinery. Galvanized steel hidden under paint also had to be dropped.

→ Timber Square

Visual grades set too late

On projects with exposed steel, pieces were matched before the architect agreed acceptable defects and some had to be rejected.

→ 6 St Andrew Street, others where reuse explored but not taken forward



On the next project

- Lock reuse into the **specification**
- Target a **range of % reuse**, because stock shifts constantly
- **Reserve nothing**, allow the stockholder to match at the right time from the current pool
- Flag what must be S355, and **accept S275** for the rest
- Set **visual grades** early, for exposed structure
- Choose the **right project**