









Covers of the guides published by the various consultants © Elliott Wood, Orms, Heta, ReLondon, Arup

GROSVENOR

Talking reuse with a large real estate company

About - As part of a refurbishment project in London, real estate company Grosvenor brought together different consultants to study reuse possibilities. Their findings have been communicated to the designers. The consultants pursued their research and enlarged their scope to include more general questions about reuse in the construction industry. They shared their results through guidebooks and webinars.

Challenges - Introduce a major real estate developer to the reuse of building materials. Guide design offices and consultants in their research. Start from a small-scale project to think about how to implement large-scale strategies.

Materials involved - Bricks, steel structure, roof slates, cast iron radiators, floor tiles, wooden floors

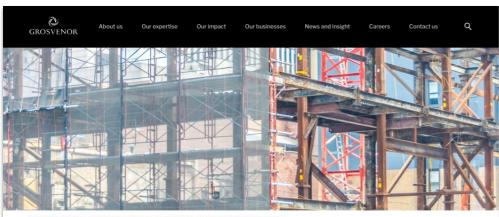
London - UK - 2021 - Private procurement

Project Size: 400m2 - FCRBE partner: Rotor asbl

Project Owner : <u>Grosvenor</u>

Consultants, architects and engineering offices: Arup - Orms - Elliott Wood - HETA - ReLondon





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Accelerating material re-use

The building and construction sector uses half of all new resources and generates more than a third of all waste in the EU*.

To adapt buildings to new uses and meet the needs of growing populations without over exploiting natural resources, circular economy principles must be adopted at scale.

In the UK, Grosvenor is seeking to build confidence in supply and receiving materials on site through enhancing knowledge and creating a network of progressive companies willing to trial new approaches.

In 2021, we canvassed 120 built environment professionals representing the full lifecycle of a building to find out more about the prevalence of, and barriers to, accelerating material re-use.

A series of guides created by our partners, HETA, ARUP, Orms and Elliott Wood address the major barriers to re-use and are published below.

Download our survey results here.

* Source: https://www.bamb2020.eu/

Join the re-use network

Click here to sign up

If you have specific materials to contribute or would like to be added to an email list for those willing to contribute re-used materials, click here.

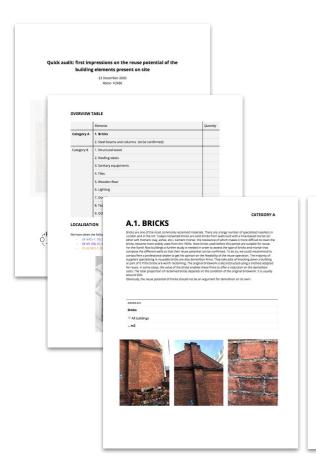
If you **need specific materials** or want to be added to an email list for those willing to receive re-used materials, click **here**.

< Grosvenor's website page on reuse of building materials © Grosvenor

Grosvenor, one of the world's largest property developers, wants to engage in the reuse of building materials. As a first step in the subject and starting from a real situation, Grosvenor has brought together a group of consultants to consider reuse in a refurbishment project in central London.

Within this project, different subjects have been studied by these consultants: how to assess the reuse potential, the question of material passports, how to source reused materials, etc.





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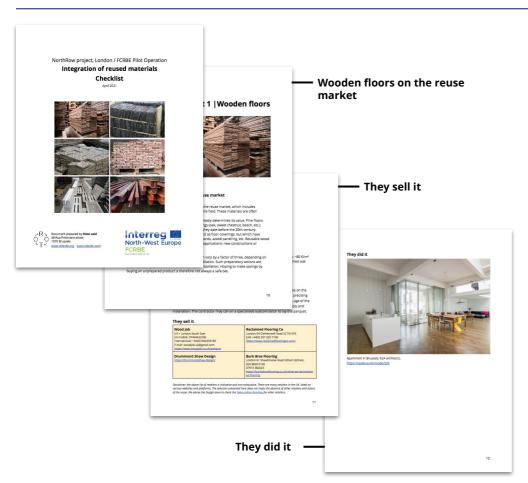
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< Extracts from first impressions on the reuse potential of the building elements present on site © Rotor

Rotor made a first estimation of the reuse potential of the elements present in the project based on photographs.

The elements with a reuse potential were divided into two categories: those that may be of interest to professional resellers and those that may be of interest to other actors (small contractor, local organization, individuals, etc).





< Extract from the selection of materials to be integrated © Rotor

Based on the needs of the renovation project, Rotor made a selection of reuse materials that have a good chance of being integrated into the project and provided information about these materials and the reuse market, a series of good contacts for these specific materials and examples of projects that integrated these reuse materials with success.





Designing for material re-use

Grosvenor's Steve Gilchrist joined Heta Architects and RotorDC to discuss the initial considerations when incorporating re-used materials into the design process.



How can Material Passports support material re-use of existing buildings?

Grosvenor's Steve Gilchrist joined Orms and Turner & Townsend to discuss the launch of a new guide to material passport





Accelerating material re-use – Watch the webinar

Grosvenor's Steve Gilchrist joined Gary Elliott, CEO and Founder of Elliott Wood to share the results of our survey and discuss the launch of their guide to decarbonisation



The practicalities of reclaimed materials

Grosvenor's Kathy Marsden joined Arup and ReLondon to discuss their guides to sourcing and using reclaimed materials < Webinars available on Grosvenor's website © Grosvenor

All of the consultants' research resulted in the publication of the different guides as well as webinars presenting the different guides. Rotor participated in one of these webinars



Asking consultants to carry out a study about material reuse at a very early stage of a project offers opportunities but also has some drawbacks. It allows to be aware of the major challenges and issues of working with reused materials and to anticipate certain issues well in advance. On the other hand, because the project is so undefined at this stage, it is not possible to deal with the very concrete questions that specific materials pose. The recommendations therefore remain at a very theoretical stage.