

Sustainable Communities Premanufactured from Wood

A Joint Learning Week in the Context of Scotland

Edinburgh Napier University beX & Harvard University GSD

CONSTRUCTION INDUSTRY KNOWLEDGE NEED (CITB, 2017)

Design Codes
and Standards

Low Carbon
Agenda

Materials
Suitability

Products &
Systems

Lean
Methodologies

Offsite
Manufacturing
Processes

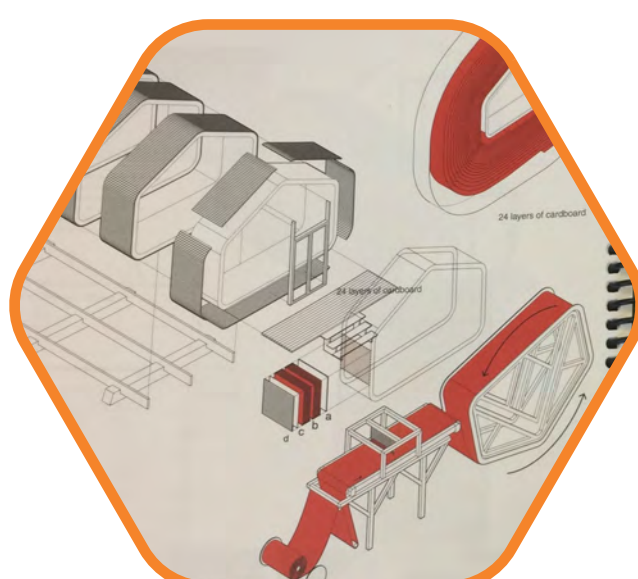
Current &
Emerging
Technologies

Site Specifics

Safe Lifting
& Handling

Quality
Assurance
Processes

Waste
Management



New Waverley Seminar

Contextualised historic analysis of the central Edinburgh regeneration with emphasis on place-making for economic sustainability and urban connectivity; lecture by Conor Pittman

Falkland Estate

Demonstration of home-grown timber resourcing for low environmental impact small-scale off-grid houses and restoration of a dilapidated historic farm building

Carbon Dynamic

Production process demonstration of volumetric CLT units for a SocialBite project in Edinburgh, with Virtual Reality demonstrations and engineering challenges solutions

Royal Mile Tour

Overview of the architectural variety of buildings along the central Royal Mile in Edinburgh culminating in a private guided tour of the Parliament, lead by Peter Wilson

Architectural Designs

The GSD students returned to Harvard to complete architectural designs for small-scale off-grid residences pre-manufactured from wood.

CCG Factory Tour

Insight into the design and manufacturing of enhanced panelised timber offsite systems at scale, using a highly automated line with quality control and waste minimisation

Custom Build Seminar

Lecture delivered by John Kinsley on his innovative self-build tenement-style apartment block constructed using Cross-Laminated Timber (CLT) in Edinburgh

Collaborative Workshop

Four design proposals in response to the Falkland Estate site visits, prepared by groups of architecture students from GSD and engineering/technology students from beX

Custom Build Visit

Unique guided tour of the self-build CLT building in Portobello, Edinburgh with opportunities to explore the technical specification of CLT mid-rise projects

IstructE Workshop

The Built Environment Exchange students participated in a cutting-edge volumetric timber engineering design competition organised by Kenneth Leitch (ENU)

CONSTRUCTION INDUSTRY 'SOFTER' SKILLS NEED (CITB, 2017)

Effective &
Ongoing
Communication

Problem
Solving

Team
Working

Attention
to Detail

Accuracy

Process
Improvement

Commercial
Awareness

Organisation

Business Case
for Offsite

Adaptability

