



Low Carbon Learning: Next Gen

Construction Skills Programme for 16–24 year olds

Key Facts

Organisations Attending:

Glasgow Clyde College, West Lothian College, Ayrshire College, Strathclyde University, Inverness UHI & Inverness High School & Lochgilphead High School, Falkirk High School, Denny High School, Forres Academy, Elgin Academy, Yell Academy & Anderson High School.

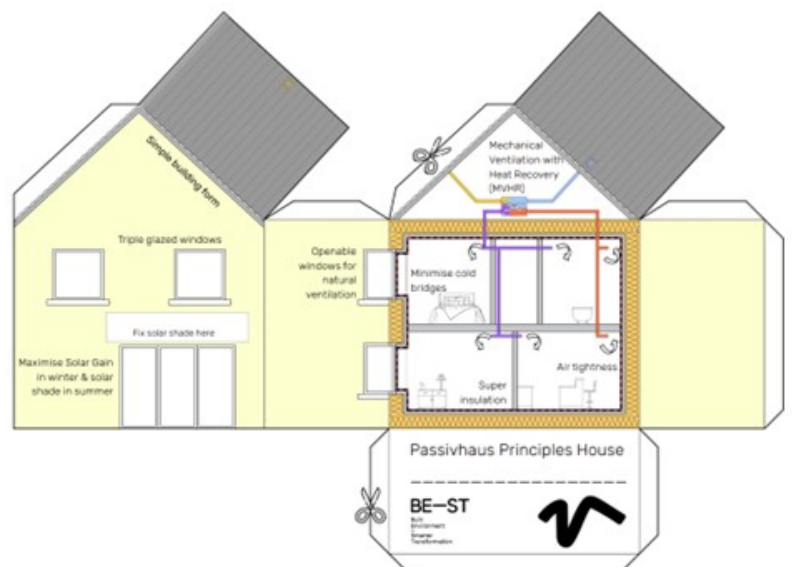
Total Attendees:

127 students aged 13–15
102 students aged 16–24
over 5 on-site workshops
and 4 off-site workshops

Passivhaus Workshops

Each of the workshop days covered a range of sessions that were tailored to the group attending to ensure the length and number of sessions and complexity of information was suitable. This content evolved throughout the programme in response to feedback and engagement.

Passivhaus theory was introduced while building a 3D model Passivhaus as an aid to understanding and information retention. This resource has been made public to allow educators to follow a similar workshop with their own students.

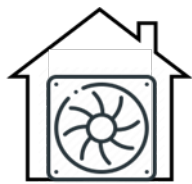


Passivhaus workshops



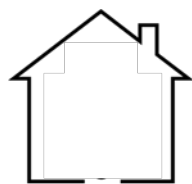
The taping workshop highlighted importance of good workmanship while allowing students the experience of using workshop

tools such as staples guns and Stanley knives to fit an airtight membrane and tape the junctions of window and service protrusions, further encouraging students to consider how we design to make this on site process simple and achievable. As airtightness is a key principle of Passivhaus construction and one of the biggest progressions to traditional construction this workshop provides a introduction to what will be a key skill for a future workforce.



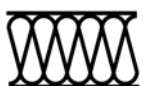
An airtightness specialist provided a theatrical demonstration of a smoke airtightness test one of our test rigs while providing more detail on airtightness testing and

certification for Passivhaus construction.



Our Passivhaus rigs provide students with 1-1 examples of modern method of construction that could achieve Passivhaus standards. These demonstrate a

range of materials and details supported by computer 3D model animations of the construction sequencing.



Installing insulation within a stud partitions allows students first hand experience of using saws to cut and

then install insulation. By allowing students to chose from a selection of insulation materials they gain insight into how this affects the ease of installation and how achievable the tight tolerances are with different methods and products.

