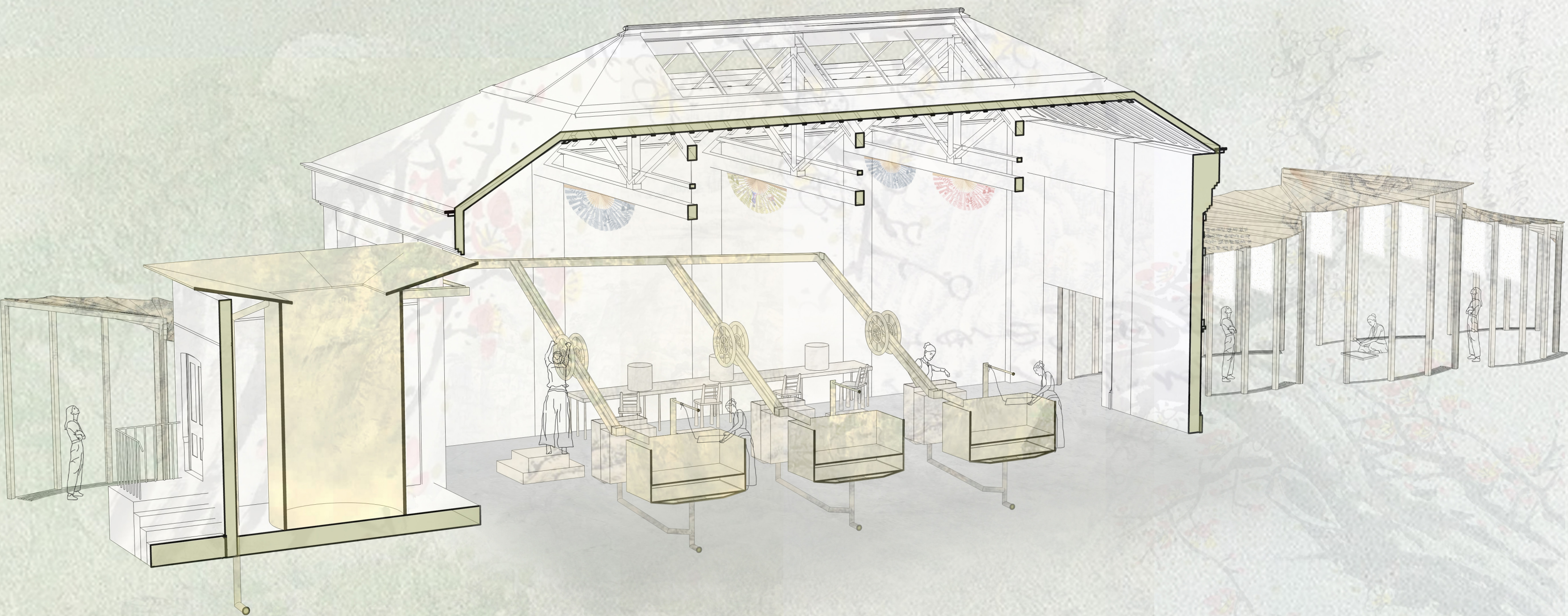
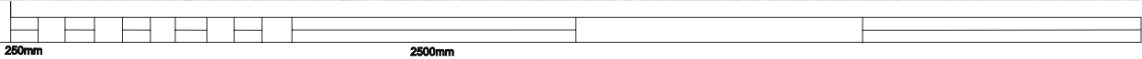


Paper to Buchae
Emme Teirlinck

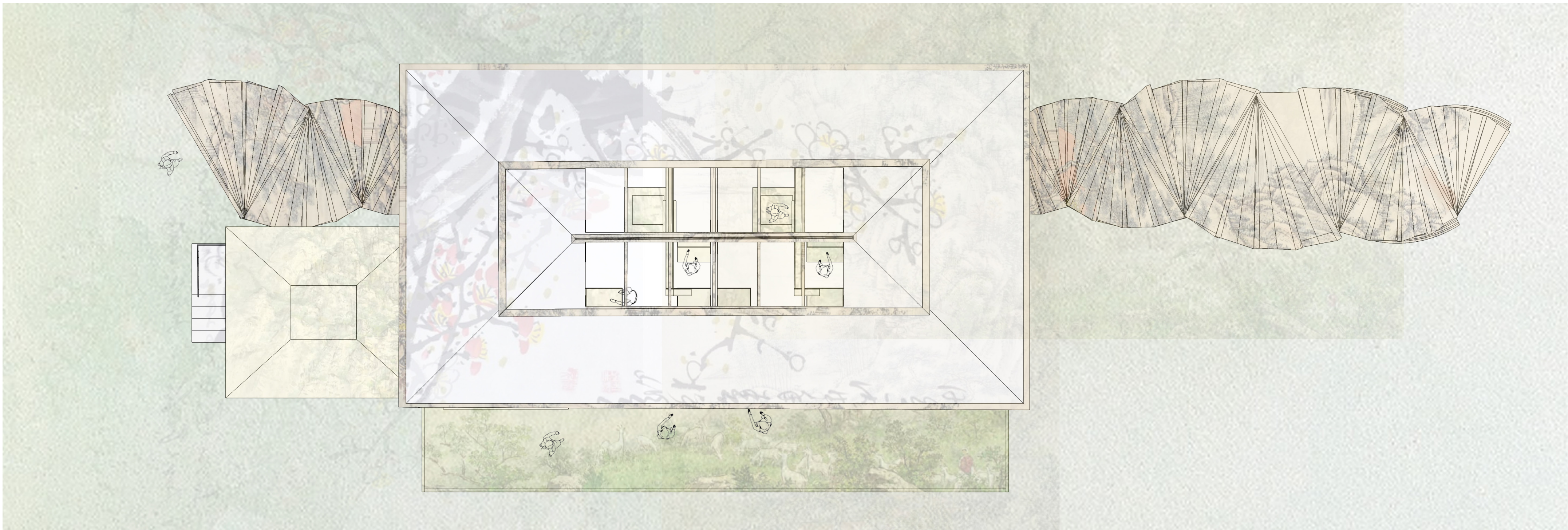
Set within the historic Singleton's Goods Shed near Chichester, my project reimagines the space as a 'new museum'—not to fix craft in the past, but to let it evolve. Inspired by the ethos of Edward James and his College's commitment to making and innovation, the shed becomes a living workshop for Korean fan-making. This endangered craft, rich in memory and cultural heritage, connects to my own childhood through fans my father brought home from the East. By handcrafting paper and transforming it into Buchae (traditional Korean fans), the project celebrates both personal and collective memory. Fans are displayed in a temporary gallery built from upcycled Boomtown tents and South Downs oak, underscoring circular design, material reuse, and the craft's living future whilst rethinking the future of the site.



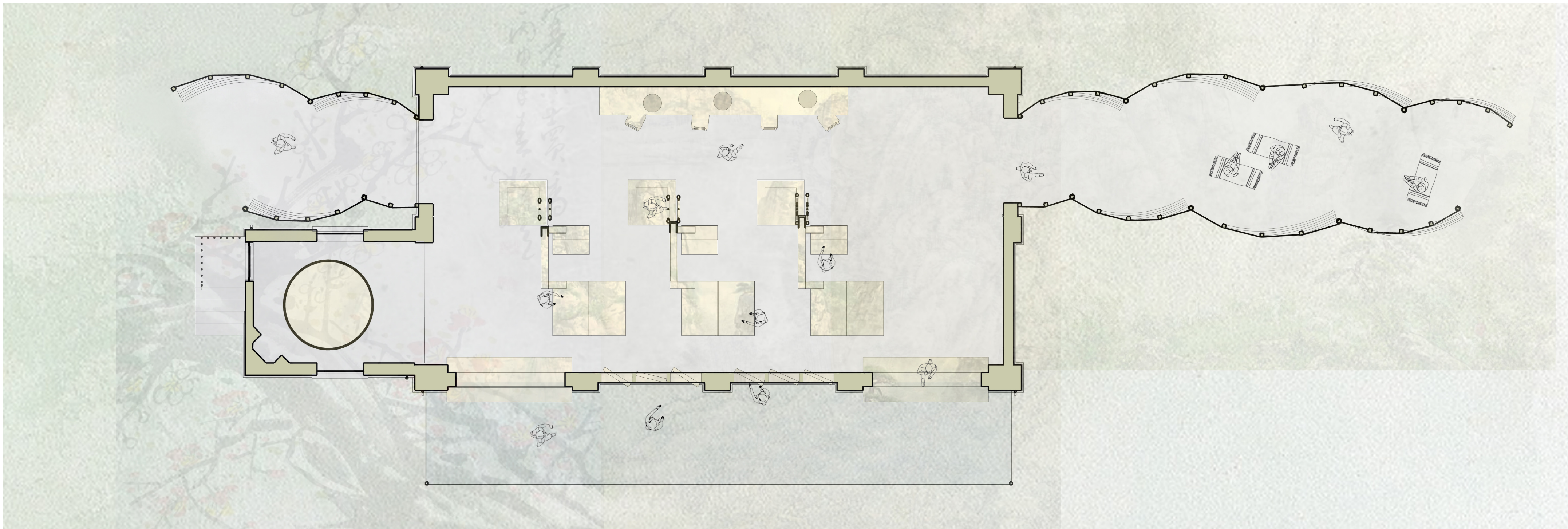
Dochim (pounding)
to smooth the paper
surface
10 minutes



Once dried, the paper is ready for painting and folding.



1:75 at A2 proposal roof plan

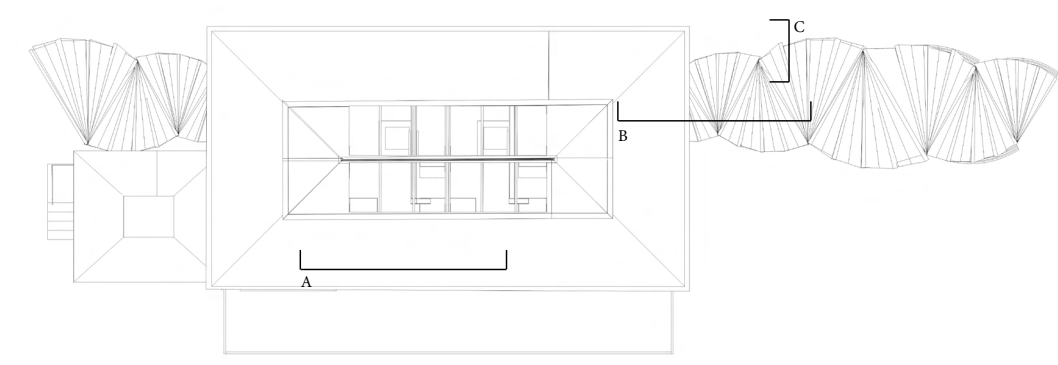
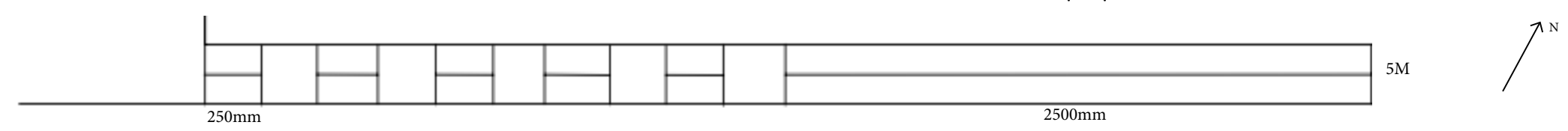


1:75 at A2 proposal plan



Gallery Space in June at 12pm

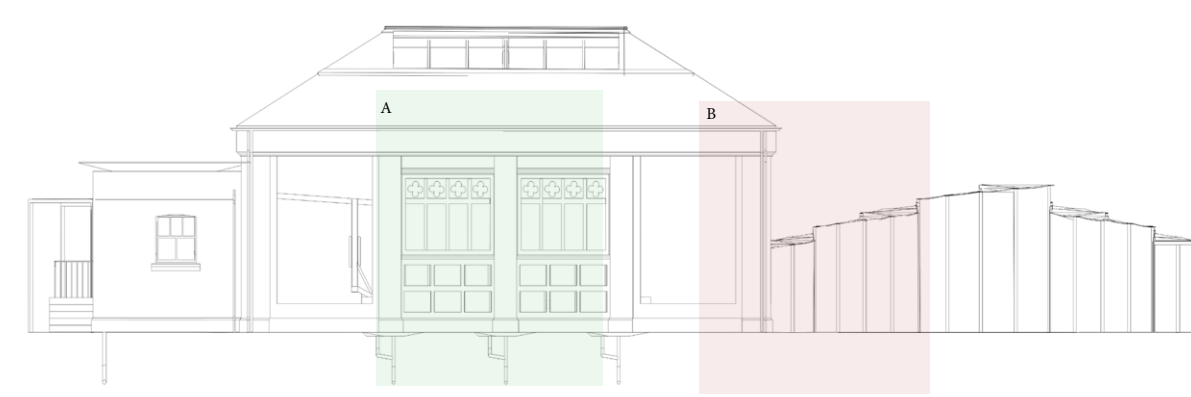
Technical cross-section diagram of a textile mill showing the power transmission system. The diagram includes a red line for the main drive shaft, blue lines for secondary shafts, and various gears and pulleys. A worker is shown operating a machine. Labels 1 through 9 and 34, 35 indicate specific components and levels.



1:75 proposal plan originally done at A2

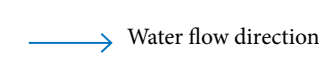
This architectural cross-section drawing illustrates the construction details of a building's exterior wall and interior space. The drawing includes the following elements and numbered callouts:

- Roof Structure:** Rafters (36, 37, 38, 39, 40, 41) and a roofline (42, 43, 44, 45).
- Chimney:** A brick chimney (10, 11, 12, 13, 14, 15, 16) with a central flue (17, 18).
- Wall and Glazing:** A series of vertical glass panels (19, 20) supported by wooden frames (21, 22, 23, 24, 25, 26). The wall sections are filled with insulation (27, 28, 29, 30, 31, 32, 33, 34, 35).
- Interior:** A person is standing inside the space, looking up at the roof structure.
- Floor:** The floor is shown with a brick foundation (36) and a patterned tile surface (37).



1:75 proposal elevation originally done at A2

Figure 1: Detail of the floor construction. The top part shows a cross-section of a floor with a person standing on it. Labels 30, 29, 27, and 28 point to different layers and components. The bottom part is a detailed view of the floor construction at a 1:5 scale, showing a cross-section of the floor with a person standing on it. Labels 31, 32, and 33 point to different layers and components.



Drainage. Section A

1. Stainless steel drains- selected because of the durable and lightweight properties
2. Stainless steel hand turning wheel- high corrosion resistance making it suitable in spaces involving water
3. Stainless steel valve
4. Plug
5. Galvanised steel sloping basin
6. Stainless steal drain
7. 36mm galvanised steel frame- durable and strong properties to frame the basins.
8. 2mm galvanised steel skin. Galvanized steel has a thin zinc layer acting as a barrier against oxygen and moisture.
9. 10mm silicone seal between basin and concrete floor

Proposal clay brick wall junction with timber structure. Section B

10. 65x100x215mm common brick bond- using the reused brick that has been taken out of the south wall for the openable paper drying panels
11. 10mm mortar
12. 150mm wood fibre insulation- good thermal and sound absorbing properties which works well with the blending sounds in my proposal
13. Brick ties
14. 6mm thick right angle steel lintels- holding the weight of the new load of my brick wall proposal
15. 400mm timber slab
16. 25mm LED strip- for aesthetic finish of lighting
17. Lead flashing- allows a sealant for water to run off into, avoiding issues like mould and leaks
18. 10mm thick rubber- working hand in hand with the flashing allowing water to run off
19. 100x100mm oak wood frames from West Dean making this a sustainable option for minimising transport emissions.
20. Up-cycled tent fabric- from tents collected at local festivals like Boomtown making this a sustainable up-cycling option.

Flooring and substructure. Section B

21. 200mm concrete slab
22. Brick strip footing
23. 100mm screed- allowing for a sloping shape at the edges of the tracks to avoid water entering far into the gallery- see section C.
24. 90mm insulation
25. 10mm damp proof membrane
26. 150mm concrete slab

Timber structure and up cycled tent fixing. Section C

27. Gravel
28. Sub soil
29. Stainless steel tracks
30. Wheel
31. Steel snap fastener- easy to remove and put on the timber fan coverings
32. Stitching
33. 5mm thick rubber sweep- to help keep rain water out of the structure

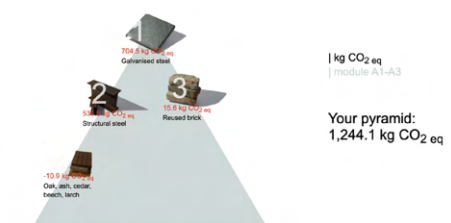
Existing roof structure and proposed plastering





34. Oak timber truss
35. Oak timber king post
36. Terracotta tiles
37. 25mm thick batten
38. 25mm counter batten
39. 10mm sarking
40. 100mm rafters
41. Wall plate
42. Fascia board
43. Cast iron drain
44. Existing site clay brick wall
45. 10mm proposal plaster layer on the brick wall with a thin layer of tadelakt to waterproof the space.

Four main materials in the proposal include galvanised steel, stainless steel represented by the structural steel, reused brick and oak wood timber.

Galvanised steel is calculated from a side of the water basins. Structural steel is calculated from the length of the left drain to the basin. The reused brick is calculated by the area of the whole proposal wall.

The oak timber is calculated by the smallest beam of the fan structure. However, transport carbon emissions is not taken into account in the material pyramid. Therefore, global warming potential will be higher than shown in the pyramid.



	material	group	impact / m ³	volume [m ³]	area [m ²]	thickness [mm]	result
1	 Galvanized steel	metal	23482.5 kg CO ₂ /eq/m ³	0.03 m ³	3 m ²	10 mm	704.5 kg CO ₂ /eq
2	 Structural steel	metal	5403.2 kg CO ₂ /eq/m ³	0.10 m ³	0.66 m ²	150 mm	534.9 kg CO ₂ /eq
3	 Raued brick	mineralisk	13.7 kg CO ₂ /eq/m ³	1.14 m ³	5.29 m ²	215 mm	15.6 kg CO ₂ /eq
4	 Oak, ash, cedar, beech, larch (cladding)	tree	-473.0 kg CO ₂ /eq/m ³	0.02 m ³	0.23 m ²	100 mm	-10.9 kg CO ₂ /eq
							1,244.1 kg CO ₂ /eq