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Paisley Mill

Architecture - Studio 6 Project

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Winter 2022

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Architectural Studio 6 – ARCH34231

by Will Nguyen

Instructor: Jordan Martin

A Paisley Mill adaptive reuse project

The Regal Archives

Café/Library

The Regal Archive project aims to construct a building that is sustainable, functional and at the same time, has its own personality. The inspiration has been drawn directly from the image of leaves, or tree branches, stacking on top of each other. There will be a lot of open spaces, floor openings, lots of windows that make use of natural sunlight. Being able to see floor stacked on floor, all the way from top to bottom provides a great sense of verticality to the guests, and add more depth to the building's context, as if one is to stand on one tree branch and able to look over the others. The overall theme that the designer's going for is freedom and nature. This reflects in the effective use of green roof, green walls, and indoor plants. Structurally, heavy timber framings were kept to preserve the structural integrity of the existing building. The materials used in the overall renovation, especially exterior cladding diverse from the original Paisley Mill. This consists of green exterior finish, natural stone masonry and polished granite, was to emphasize the renovation process visually and thematically. If done correctly, not only it doesn't take away the consistency of the design but on the contrary, adds diversity to the look and a new identity to the construction.





## Assemblies

### W9- Concrete Foundation Wall

- 50mm rigid insul.
- 190mm structural concrete
- 50mm rigid insul

### W7- Stone-Ext

- 90mm natural stone masonry
- 35mm air space
- Air barrier
- 13mm sheathing
- 140mm studs with BATT insul.
- Vapour barrier
- 13mm GWB

### W2- Polished granite-Ext

- 90mm polished granite slabs
- 35mm air space
- Air barrier
- 13mm sheathing
- 140mm studs with BATT insul.
- Vapour barrier
- 13mm GWB

### W3- Typ. GWB interior

- 13mm GWB
- 90 mm load bearing concrete
- 13mm GWB

### W4- Green Wall

- 20mm vegetation
- 70mm mesh and soil
- 35mm air space
- Air barrier
- 13mm sheathing
- 140mm studs with BATT insul.
- Vapour barrier
- 13mm GWB

### F1- Concrete slab (oak finish)

- 22mm oak finish
- 35mm metal deck
- 140mm structural concrete
- 50mm rigid insul.
- 100mm granular fill

### F2- Oak Finish Flooring

- 22mm oak finish
- 35mm metal deck
- 140mm structural concrete
- Plasters

### R1- Green roof

- 20mm plant
- 50mm soil
- 30mm sheathing board
- 50mm damp-proofing
- 250mm precast concrete

