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Paisley Mill

Architecture - Studio 6 Project

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Winter 2022

### Leen Alkhen

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*Sheridan College*

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*STUDIO 6*  
*ARCH34231*

PAISLEY MILL- ADAPTIVE REUSE

3D WALL SECTION

LEEN ALKHEN

ID:991521458

Studio 6  
Paisley Mill Adaptive Reuse  
3D Wall Section  
Major Project  
Leen Alkhen

R1- ROOF ASSEMBLY

Roof Shingles  
Air Barrier  
Membrane Layer  
Plywood Sheathing  
Roof Rafter with Batt Insulation  
Vapour Barrier  
Gypsum Wallboard

W1- Foundation Wall

50 mm Rigid Insulation  
Asphalt Bitumin Damp- Proofing  
300 mm Cast in Place Concrete  
Asphalt Bitumin Damp-Proofing  
50 mm Rigid Insulation

W2- Clapboard Siding Finish

10 mm Clapboard Siding  
25 mm Air Space  
2x 50 mm Semi Rigid Insulation  
38x14 Wood Studs w/ Batt Insulation  
6 mil Poly Vapour Barrier  
13mm GWB

F1- First Floor Finish

13 mm Engineered Wood Flooring  
25mm Wood Subfloor  
38 x 38 Wood Studs W/ Batt Insulation  
50mm Rigid insulation

F2- Second Floor Finish

13 mm Engineered Wood Flooring  
25 mm Wood Subfloor  
38 x 38 Wood Studs w/ Batt Insulation  
25 mm Rigid Insulation  
16 mm Fire Resistant Drywal



## Design Intent Statement

The design intent for this site is for locals to socialize, learn, and to lounge. The building structure is heavy timber wood structure supporting a four-storey building. The timber columns and beams will be preserved and kept in place to keep the historical value.

The original building was not insulated; therefore, rigid insulation will be added on the exterior face of the sheathing to prevent thermal bridging. The existing wood siding will also be replaced with new siding. On the last floor, the exterior wall will be replaced by curtain wall. Also, on the north side the interior stairs will be exposed as the wall type is also exterior wall. The finish material is clapboard siding finish.

The material clapboard siding comes in a wide range of colors and in many architectural styles. It is not only better in appearance, but it is more durable and stable. It won't easily scratch, scrape, or peel off. Due to its lightweight structure, it is easy to move, cut, and manipulate. It can be easily maintained and cleaned. If one of the panels is damaged, it can be easily replaced.

The section is cut through North- South side of the building, the wall section is showing the window wall and the exterior finish as well.