

Sheridan College

## SOURCE: Sheridan Institutional Repository

---

Paisley Mill

Architecture - Studio 6 Project

---

Winter 2022

### Diya Panesar

Diya Panesar  
*Sheridan College*

Follow this and additional works at: [https://source.sheridancollege.ca/student\\_work\\_fast\\_projects\\_studio6\\_paisley\\_mill](https://source.sheridancollege.ca/student_work_fast_projects_studio6_paisley_mill)



Part of the [Architectural Technology Commons](#), and the [Interior Architecture Commons](#)

---

#### SOURCE Citation

Panesar, Diya, "Diya Panesar" (2022). *Paisley Mill*. 25.

[https://source.sheridancollege.ca/student\\_work\\_fast\\_projects\\_studio6\\_paisley\\_mill/25](https://source.sheridancollege.ca/student_work_fast_projects_studio6_paisley_mill/25)



This work is licensed under a [Creative Commons Attribution-NonCommercial-No Derivative Works 4.0 License](#). This Student Work is brought to you for free and open access by the Architecture - Studio 6 Project at SOURCE: Sheridan Institutional Repository. It has been accepted for inclusion in Paisley Mill by an authorized administrator of SOURCE: Sheridan Institutional Repository. For more information, please contact [source@sheridancollege.ca](mailto:source@sheridancollege.ca).

# PAISLEY MILL

## 3D SECTION

The 3D wall section cuts through the adjacent part of the existing and new construction on the northeast side of the building. The main intent of the section is to demonstrate how the existing and the new parts of the building are integrated into each other on the basis of spatial design and wood frame construction. Also, this section puts emphasis on the differentiation of separation of the exterior and the interior of the building. It shows the balcony areas where the tourists and the locals can enjoy the view of the Teeswater river and the natural scenery around while sipping a beverage or reading a book. The section illustrates the fire rated wall assembly separating the exterior exit stair running through the balcony areas and the interior spaces. The heavy timber construction shown in the section through the first-floor attempts to preserve the existing construction as well as meet the required building codes and the structural requirements. While on the upper floors, new interior structure is developed, and the quality and the fire rating of the exterior is increased. The roof and foundation construction is restored in such a way via detailing techniques such as the rainscreen principle and the in order to prevent moisture seepage into the interior. Moreover, a Passive Haus heating approach is made via envelope detailing in order to reduce the energy consumption.

**ASSEMBLIES:**

**R1-ROOF ASSEMBLY**  
 16mm ASPHALT SHINGLES -RED  
 ROOFING FELT MEMBRANE  
 2-50mm RIGID INSULATION  
 w/ SEEMS OFFSET  
 38x286mm ROOF RAFTERS w/  
 CEILING INSULATION AND  
 INSULATION BAFFLES  
 38x286mm CEILING JOIST  
 16mm PLYWOOD SHEATHING  
 AIR BARRIER  
 13mm DRYWALL

**W1-EXTERIOR WALL ASSEMBLY**  
 19mm WOOD CLADDING  
 25mm AIR SPACE  
 AIR BARRIER  
 2-75mm RIGID INSULATION  
 16mm PLYWOOD SHEATHING  
 38X286mm WOOD STUDS c/w  
 BATT INSULATION  
 6mil. VAPOUR RETARDER  
 13mm DRYWALL

**W2-FOUNDATION WALL ASSEMBLY**  
 10mm PLASTER FINISH  
 2-75mm RIGID INSULATION  
 WATER PROOFING  
 300mm CAST IN PLACE CONCRETE WALL  
 50mm RIGID INSULATION  
 38x89mm WOOD STUD WALL c/w  
 BATT INSULATION  
 6mil. VAPOUR RETARDER  
 13mm DRYWALL

**F1-INTERIOR FLOOR ASSEMBLY**  
 19mm OAK FLOORING  
 16mm PLYWOOD SHEATHING  
 38x286 WOOD JOISTS @600mm o.c.  
 16mm PLYWOOD SHEATHING  
 13mm DRYWALL

**F2-EXTERIOR FLOOR ASSEMBLY**  
 19mm BIRCH WOOD FLOORING w/  
 WEATHER RESISTANT COATINGS  
 16mm PLYWOOD SHEATHING  
 38x286 WOOD JOISTS @600mm o.c.  
 16mm PLYWOOD SHEATHING-FINISHED

**F3-SLAB-ON-GRADE FLOOR ASSEMBLY**  
 150mm CAST-IN -PLACE CONCRETE SLAB  
 6mil VAPOUR RETARDER  
 75mm RIGID INSULATION  
 100mm COMPACTED GRAVEL  
 UNDISTURBED EARTH

