



PAISLEY RECREATIONAL CENTRE

By: Faith Nicole Marcelino

The 3D wall section cuts through the new addition along the north elevation of the Café and Art Recreational Centre. To support the loads from the staircase and occupants, 300mm cast in place concrete is used as the main structure. The 50mm METL SPAN insulated metal panels serve as an aesthetic cladding and helps increase the R-value for the wall. To support these panels, horizontal "Z" clip fasteners are used and provide a 25mm air space to apply the rainscreen principle. 75mm continuous rigid insulation and a 10 mil air barrier envelops the concrete wall from the foundation to the roof to help reduce thermal bridging. The interior side of the wall is wrapped with a 6 mil vapour barrier and finished with 20mm wood siding to mimic the existing silo mill aesthetic. The roof utilizes 38x150mm angled roof rafters finished with 15mm rubber roof shingles. In addition, a vented soffit system is installed to help keep moisture away from the rafters to and prevent molding. The exposed foundation wall is concealed with a 20mm cover board and is wrapped with two layers of rigid insulation. To help with underwater drainage, a 10mm drainage board is also installed with a damproofing membrane.

