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Agway Metals Case Study | CARBONEAR ACADEMY (DAVIS SCHOOL)

The Carbonear Academy, which has the capacity for 470 students from kindergarten to Grade 8, opened for classes in September 2013. Although just completed, a higher than expected number of students forced the province to spend an additional \$2 million on the construction of four additional classrooms and was completed early this year. The school replaced the 60 year old Davis Elementary.

Using steel allowed the architect to add visual interest to the school with horizontal cladding in bright primary colours.

“We used steel because we were driven by the owner’s requirements. The main concerns were durability, weatherability, and low maintenance,” said architect Greg Snow of Gibbons Snow Architects Inc. “With steel there are a wide variety of profiles and colours you can use. We used bright colours and different textures to add interest.”

“Its location posed a bit of a challenge for the crew,” Snow said.

“It’s built into the side of a hill. If we’d gone back any farther, the excavation would have gotten very expensive,” he explained. “It’s a very narrow, long site. We used blocks of colour, which breaks up the elevation and gives it a visual interest. For some sections around the windows, we used regular corrugated profiles to break up the elevation.”

The school is 137m (450 feet) long, with 5,110m² (55,000 sq. ft.) of useable space inside. Constructed of structural steel with masonry walls and prepainted steel cladding, it was built to last. “It’s a very visible landmark. It has a sense of permanence in the community,” said Snow.

The school has been built to the highest possible efficiency and environmental standards and the architect was able to take advantage of some of the school’s green elements in a way that will engage students and teach them about energy consumption. Those touring the complex were impressed by the colourful exterior, neatly designed parking and access lanes, spacious classrooms and sizable gymnasium.





PROJECT

Carbonear Academy
(Davis School)

BUILDER | CONTRACTOR

Marco Group

ARCHITECT

Gibbons Snow Architects

APPLICATOR

Hampton Building Systems

AGWAY PRODUCTS USED

Vert. Siding, HF-12-F

Colour: QC8273 Bone White

Horiz. Siding, 7/8" Corrugated

Colour: QC8330 Heron Blue

Soffit, HF-12

Colour: QC8273 Bone White



“We incorporated interactive computer software tied into the building’s systems so students can see the mechanical and electrical systems of the school in real time. They can see the energy usage and compare it to other schools,” Snow said. “Some of the teachers are quite interested in using it as a teaching tool for energy consumption.” The building’s energy conscious features include higher efficiency lights with daylight sensors and geo-exchange heating and cooling.

A long yellow composite panel was used for the canopy in front of the building to add further visual interest and some weather protection. Inside the school, the yellow colour was again used for the corrugated metal stairs.

“The lobby and entrance area are a real focal point for the building,” said Snow. “We used some custom colours.”