

## Chukotka Russian School

- The Need:** A fully operational school for the Russian high Arctic.
- The Mission:** To build a modern and cost-effective school complex that withstands extreme climate conditions.
- The Solution:** Use BRITCO's 'Modular Core Construction®' system to design, build, and install a factory built school with limited onsite resources.



"BRITCO provided more than just an affordable building, they paid close attention to our needs and exceeded our expectations of quality and service."

- Client Representative

### THE BRITCO 'MODULAR CORE CONSTRUCTION®' SYSTEM

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Contract Award 31/05/01	Notice to Proceed 31/05/01	Submission of Drawings 13/07/01	Approval Issued N/A	Permits issued N/A	Site Preparation N/A	Delivery & Installation 05/09/01	Customer Acceptance 05/09/01

From start to finish: 66 working days

# Project Details

**Owner/Project:** Chukotka School - 12,924 sq. ft. School

**Date of Install:** September 4, 2001

**Time to Construct:** 66 working days

**Goal:** To design and build a custom factory-built school facility that will withstand the unique climate of the high Arctic.

**Project Details:** The 12,924 sq. ft. school complex consisted of 15 modules that were built to withstand harsh Arctic climate conditions. Specialty features include hot water radiant heat, controlled and humidified ventilation, full kitchen and cafeteria, emergency power generator system, gymnasium, washrooms, changerooms, dividable classrooms, library, and office facilities that feature a westernized décor.

**Interior:** Details include lacquered birch millwork throughout the facility, T-Bar ceiling in the main corridor, lacquered T&G 2x6 ceilings, and glulamined beams and purlins. The units have an enhanced insulation system to prevent condensation and thermal bridging of the wood framed structural elements.

**Exterior:** The roof system features a two-ply torched on system, and 26 gauge metal siding was selected to compliment a 'Hardi Panel' trim and fascia. 26 gauge flat metal was also applied to the underneath of each module to protect the underside from vandalism and intrusion.

**Special features:** A vapour barrier was installed within the wall cavity to eliminate penetrations by the electrical systems. The mechanical rooms are self-enclosed and situated on top of the school modules allowing direct access to the electrical compartments, which ultimately helped to keep the footprint of the building smaller.

BRITCO's Project Manager coordinated and managed all aspects of completing the factory portion of the project and helped facilitate site development in association with the client.

The project utilized BRITCO's 'Modular Core Construction®' system which uses a combination of concurrently scheduled site building and off-site pre-built modular units to reduce total construction time up to 50%.

## Traditional Construction timeline



## 'Modular Core Construction®' system timeline



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