



# POLAR ICEBREAKER

Canada's new Polar Icebreaker will be the Canadian Coast Guard's multi-role vessel and is designed with a high degree of operational flexibility to support multiple missions including important Arctic science programs.

The Polar Icebreaker will be a modern, multipurpose 3-season vessel with the ability to overwinter as needed. The ship will be capable of breaking up to 2.5 metres of ice and can sustain operations in 2.2 metres of level ice. This ice breaking capability is a key design feature which allows the Canadian Coast Guard (CCG) to deliver a variety of important programs.

Some of these missions include Search and Rescue, Environmental Response, Marine Navigation, Icebreaking and Arctic Science. The Polar Icebreaker will also support Community and Northern Resupply missions through escort icebreaking to allow commercial fleet owners to deliver goods. The Polar Icebreaker can also deliver goods directly when commercial options aren't available.

This vessel is configured to minimize the crew and mission personnel's exposure to extreme weather conditions, making the Polar Icebreaker a vital instrument to carrying out important Canadian Coast Guard missions in the Arctic.

## NATIONAL SHIPBUILDING STRATEGY VESSEL PROFILE

The Polar Icebreaker will support Canada's Arctic missions, sovereignty, and presence.

Canada's Icebreaker has a logistical endurance of 270 days in the Arctic.

The Polar Icebreaker is a modern, multi-purpose three-season vessel that is also capable of safely over-wintering.

# POLAR ICEBREAKER

## BUILDING CANADA'S MULTI-MISSION POLAR ICEBREAKER



### HELICOPTER OPERATIONS

Fully outfitted for Arctic operations with a hangar that can accommodate two medium lift helicopters.

### GARAGE

Equipped with a garage to accommodate vehicles to support various mission requirements and activities taking place on ice.

### MOONPOOL HANDLING SYSTEM

Designed to safely deploy science equipment through the centre of the vessel in ice infested waters.

### HIGH-ARCTIC OPERATIONS

Designed to carry out missions May through January and is able to safely operate over winter in the Arctic.

### ICE-BREAKING CAPABILITY

Capable of breaking 2.5 metres of ice at 3 knots.

## POLAR ICEBREAKER SPECIFICATIONS

Length Overall	150.1 m	Design Displacement	23,700 t	Complement	60 Core + 40
Breadth	28.0 m	Max Speed	18 knots	Light Ship Weight	16,803 t
Design Waterline / Draft	10.5 m	Range	26,000 + NM @ 12 Knots	Classification	Lloyd's Ice Class PC2

## NATIONAL SHIPBUILDING STRATEGY (NSS)

Seaspan Shipyards is proud to deliver Canada's non-combat program of work under the NSS. The company is building state-of-the-art ships in Canada for the Canadian Coast Guard and Royal Canadian Navy. Through its NSS-related work, Seaspan Shipyards is creating thousands of jobs, generating significant economic benefits, and rebuilding Canada's shipbuilding and marine industries.