



Cruise Projects



**OPENAIRE IS THE
WORLD'S PREMIER
DESIGNER,
MANUFACTURER
AND INSTALLER OF
CUSTOM ALUMINUM
RETRACTABLE
ROOF ENCLOSURES
AND SKYLIGHTS.**

Why make sure your cruise line includes a Retractable Roof?

Adding a retractable roof to your cruise ship design ensures that the ship can sail in all types of weather with no impact on the guest experience.

It also ensures that a single ship can be sailed within multiple environments, from the Arctic to the Caribbean and that for longer trips, guests are not impacted by weather related changes.

A fully global and flexible ship design is a better investment for any cruise line operator. For those looking to expand their portfolio and bring to guests the latest and greatest technology - this is part of that package.

Key Facts



General Information

- Over 1000 built projects around the globe
- Over 25 years in business
- We work with architects, developers, investors, contractors, construction managers, general contractors, independent builders, property owners and more...
- OpenAire can participate in your project from design to manufacturing, to construction / installation and hand-over plus can provide architectural and engineering services, operations support, financial/investment planning, business planning etc.
- The best warranty in the industry: 5 year parts and labour warranty, training, worldwide support and maintenance

Collaborative Design

- Entirely custom designed to fulfill your project vision
- In-house design and engineering
- Certified fabrication & welding facility
- Unparalleled customer support and project management
- Revit, Solid Edge, CAD

Engineer Standards

- Minimum L/200 deflection criteria in every design
- Free span enclosures of over 165' (50 m)
- Free-span dome configurations more than 300' (91 m)
- Engineered for all climates: including high snow loads and seismic zones

Aluminum Construction

- Thermally broken aluminum frame helps lower energy costs
- Baked on paint finish prevents corrosion
- No need for repainting
- Product weight is lighter (vs. steel)
- Product Flexibility is high (vs. steel)
- This results in saving on long term life cycle and operations costs

Going Green?

- OpenAire structures create natural ventilation, which substantially reduces a building's reliance on a mechanical HVAC system and ventilation resulting in substantial energy savings in the long-term.
- All glazed nature of the enclosures allows an abundance of natural light so there is no need for lights during daylight hours
- In the winter, the solar gain offsets some of the heating requirements
- OpenAire structures contribute to Leadership in Energy and Environmental Design (LEED) certification, for both New Construction and Core and Shell rating systems.



Salinas Municipal Aquatic Center, CA
LEED GOLD RATING



Roger Carter Community Center, MD
LEED SILVER RATING



Aquatic Air Quality

- Retractable roof and doors around the perimeter allow for natural ventilation, think of this building as a “natural chimney”
- Proper air flow and ventilation for chloramines reduces risk of guest illness (headaches, nausea etc)
- To date no OpenAire aquatic enclosures have included air conditioning, fans and an air handling system simply move the air around the space keeping guests cool
- The ability to open the roof year round allows for warm humid and chemical laden air to be released as needed (perceived to be the most common aquatic issue)
- The temperature inside is about the same as outside with the roof open, fans inside may help make the interior seem cooler





Quantum of the Seas
Royal Caribbean





Royal Caribbean Ships:

1. Quantum of the Seas
2. Anthem of the Seas
3. Ovation of the Seas
4. Spectrum of the Seas

More work currently in Progress...





Thank you

OpenAire Inc. (Head Office)

2360B Cornwall Road
Oakville, ON, Canada, L6J 7T9
Toll Free: 1-800-267-4877
Tel: 905-901-8535

www.openaire.com

Key Contacts:

Dave Bolwerk, VP
dbolwerk@openaire.com

Nancy Patterson, Dir. Design & Business Development
npatterson@openaire.com

General Mailbox
Sales@openaire.com