



**NORTHSEA**

# HELIDECK

**& ACCESS SYSTEMS**



## HELIDECK & ACCESS SYSTEMS



North Sea Offshore (NSO) is a proven and certified manufacturer of aluminum helidecks & access systems for offshore, marine and onshore rooftop applications. We provide turnkey solutions, and our helideck systems are compliant for worldwide delivery.

Our spacious, fully equipped manufacturing facility in Yantai, China, is in the center of the global offshore and marine construction industry, lending us a competitive edge in balancing low-cost production with high quality design and engineering.

We are your trusted supplier for fully tested, class approved, and certified high quality aluminum helideck and access system solutions specifically tailored to suit your needs. We take pride in the quality of our production and after-sales service commitment.

## QUALITY ASSURANCE

- ✓ Patented design
- ✓ Third party certification
- ✓ Structured quality control system
- ✓ Fully equipped fabrication facility
- ✓ Skilled & experienced team of engineers and service personnel

## NSO HELIDECKS

Our patented helideck is accepted worldwide for safe and reliable take-off and landing. The lightweight aluminum pancake consists of an extruded deck plate and girder beam. When combined with an aluminum support structure the total weight is half that of the steel alternative, making it ideal for weight sensitive projects. In addition, serrations on the deck surface, combined with our NorthGrip solution or micro-texture finish ensures high-friction coefficient on the deck surface. No welding is required during site installation as the helideck is entirely bolted together. All plates and extruded profiles are marine grade 6XXX or 5XXX series. The fasteners for aluminum connections are SS316 grade A40-70 or 80.



## APPLICABLE PROJECTS



Offshore



Marine



Rooftop

## COMMON HELIDECK TYPES



D-Value: 12-14m

EC 135 T2  
Agusta A109  
Dauphin AS365



D-Value: 14-20m

Sikorsky S76  
Super Puma AS332L  
EC 225  
Agusta/Westland AW 139 & 189



D-Value: 20-26m

Sikorsky S92A  
Sikorsky S61N  
Mi-8/17  
AW101

## CLASSIFICATION SOCIETIES

DNV-GL

ABS

LR

BV

CCS

RMRS



# DESIGN RULES, STANDARDS, AND REGULATIONS

## International

- CAA UK – CAP 437
- IMO MODU CODE
- ICAO, Annex 14
- SOLAS
- National Authorities

## Norway

- Norwegian CAA – BSL D5-1
- Norwegian Maritime Authority (NMA)
- NORSOK

## Europe

- European Standard – EN 1999 Eurocode 9
- CAA UK – CAP437

## U.S.

- API RP-2L
- U.S. Coast Guard

## Brazil

- Norman 27

## China

- CAAC



## MAIN FEATURES

- ✓ Lightweight – 50% less than steel
- ✓ Quick delivery – Under 11 weeks
- ✓ Worldwide delivery – Compliance to any country or region-specific regulations & standards
- ✓ High friction helideck surface – Above .65μ
- ✓ Cost effective – Maintenance free and minimal upkeep compared with steel equivalent
- ✓ Fast assembly – 3 weeks for pancake, 4 weeks for pancake & truss
- ✓ Pre-fabricated modular construction – Ideal for quick and safe onsite assembly
- ✓ Long service life – 30+ years
- ✓ 100% recyclable – Environmentally conscious

## ACCESS SYSTEMS

Flexible aluminium access systems, customizable for the solutions you seek.



Walkways



Staircases



Bridges



Structures

## OPTIONAL PACKAGES



Winterization

Heat tracing system. Preferred in cold climates for helideck and walkways. Certified for -20°C on helideck surface and -50°C on passageways.



NorthSafe

Passive fire extinguishing system. An ideal solution for meeting added safety value requirements and for unattended platforms.



NorthGrip

High friction bare aluminium deck surface treatment. A maintenance free & cost-effective alternative to a painted micro-texture finish.



DIFFS

Deck integrated fire fighting system. Water or AFFF. Designed for optimal and active fire suppression for ultra-safe helideck operations.

- 
- ✓ Water DIFFS system – Environmentally friendly and cost effective
  - ✓ Lighting – Floodlights, perimeter lights, status light, windsock, and other accessories
  - ✓ HMS, VHF, and NDB systems
  - ✓ Lifesaving appliances
  - ✓ Landing net
  - ✓ Piping for draining and fire-fighting
  - ✓ Platform and access way
  - ✓ Marking/painting according to rules
  - ✓ Assistance with authority approval
  - ✓ Design of aluminium or steel support structure

## STANDARDIZED & CUSTOMIZED SOLUTIONS

Our helidecks are produced as a prefabricated kit in our factory to ensure a consistent high-quality product. We provide worldwide delivery and professional supervision of assembly and installation.

Furthermore, harsh and unique environments often require customized solutions to ensure safe helideck operations. NSO helidecks can be designed and manufactured to meet the demands of each unique project. We provide solutions for a variety of dynamic work environments including challenges with cold climates, enhanced safety requirements, and other unique situations.

All of our helidecks come standard with an after-sale warranty and our offices worldwide are ready and able to provide assistance. We also provide product training for routine inspection and maintenance activities.



## CONTACT US

### NSO Yantai – HQ office

Building 7-116, No. 10 Jingshan Street Zhifu District,  
Yantai City, Shandong Province, China 264000

+86 535 6289 768 ext. 8016  
[info@northsea-offshore.com](mailto:info@northsea-offshore.com)

### NSO Europe

Klippan 3, 414 51  
Gothenburg, Sweden

+46 768 688 086  
[Kristian@xrusor.com](mailto:Kristian@xrusor.com)

### NSO SE Asia

22, Jalan Desa Serdang 4, Desa Serdang Industrial  
Park, 43300 Seri Kembangan, Selangor, Malaysia

+60 12 3197 668  
[junefm@foomangroup.com](mailto:junefm@foomangroup.com)

[www.northsea-offshore.com](http://www.northsea-offshore.com)