

HELIDECKS

& ACCESS SYSTEMS



Aluminum Helidecks



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 helidecks 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 approximately 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 SIZES



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

ABS

LR

BV

CCS

RMRS

DESIGN RULES, STANDARDS, AND REGULATIONS

International

- IMO MODU CODE
- ICAO, Annex 14
- SOLAS
- CAAP 71

Norway

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

Europe

- European Standard – Eurocode 9
- UK CAA– CAP437

U.S.

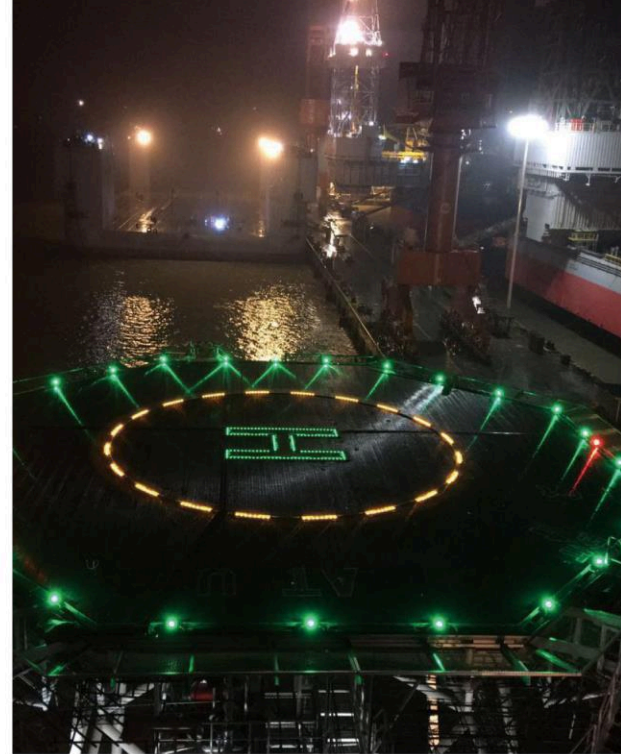
- API RP-2L
- U.S. Coast Guard

Brazil

- NORMAM 223

China

- MH5013



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 aluminum 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 aluminum 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 circle & H lighting
- ✓ HMS, VHF, and NDB systems
- ✓ Lifesaving appliances
- ✓ Landing net
- ✓ Piping for draining and fire-fighting
- ✓ Platform and access way
- ✓ Authority approval
- ✓ Design of steel support structure

Northsafe Helideck: NSO's patented perforated deck ensures rapid fuel drainage and seamless water DIFFS integration: no foam, no fuss. Lightweight, and low-maintenance. Ditch the foam, keep the performance. Fully CAP437/NORSOK compliant.

Water-Only DIFFS Advantages • 900 kg skid weight savings for better payload and stability • No foam = lower maintenance and lower annual cost • Eco-friendly, regulation-ready for upcoming AU & EU environmental mandates



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