

Facts & Figures Nautical

This publication of the Port of Amsterdam gives you all the information on nautical issues of the various ports in the North Sea Canal Area. This document also includes a list of useful websites and information on nautical services.

Content

1. North Sea Canal ports
2. North Sea Canal in general
3. North Sea locks
4. Useful websites
5. Nautical services



North Sea Canal Area



IJmuiden Sealocks



Port of Amsterdam

Facts & Figures Nautical

1. North Sea Canal ports

IJmuiden

Harbour	quay length(m.)	draft(m.)
Harbours of IJmuiden and Velsen		
Zeehaven IJmuiden	4350	7-10
- Felison Terminal		9
- Vissershaven		9-10
- Haringhaven		7-10
- Cruise quay		8.5
Third harbour		11
Corus Staal BV		
- Outer harbour quay no.1	414	9.00-10.80
- Outer harbour quay no.2	550	16.50
- Outer harbour quay no.3	250	11.00
Inner harbour no.3	212	6.50

Port Authority of IJmuiden
Zeehaven IJmuiden NV
P.O.Box 541
1970 AM IJmuiden
Tel: 0255-547000
Fax: 0255-547050
www.zeehaven.nl
havendienst@zeehaven.nl

Beverwijk

Harbour	quay length (m.)	draft (m.)
Beverwijk	1100	8-55
Noordwijkermeer	350	11
	300	9
N.A.M. Base	400	8.25-9.00
Orcabase	235	7

Port Authority of Beverwijk
Harbour-Master A.J. Visser
Noorderkade 1
1948 NR Beverwijk
tel.0251-224750
fax 0251-214050

 **Port of Amsterdam**

Facts & Figures Nautical

Zaandam

Harbour	length (m.)	width (m.)	depth (m.)
Wim Thomassen Haven	545	240	ca.10
Dirk Metselaarhaven	600	112	10
Isaac Baarhaven	900	70	ca. 9
-Houtcentrum1	65	-	ca. 5
-Houtcentrum2	70	-	ca. 7
-Houtcentrum3	200	-	ca.9
Zijkanaal E			
-kade zijkanaal E	35		ca. 5
Voorzaan			
-Passagierskade Burcht	125	-	2.5
-Passagierskade Bodecentrum	66+33	-	2.5/2.0

Port Authority of Zaandam
Harbour Director
A.A.F. v.d.Markt
Westkade 2
1506 BA Zaandam

telephone: 075 - 6816888
fax number: 075 - 6816799
www.zaanstad.nl
havens@zaanstad.nl

Amsterdam

Harbour	length (m.)	depth (m.)
Afrikahaven	1,900	15.00
Madagascarhaven	200	4.50
Amerikahaven	2,900	15.00
Cacaohaven	440	7.50-4.50
Australiëhaven	1,375	12.00-15.00
Tasmaniëhaven	170	5.00
Aziehaven	980	12.00
Texashaven	165	7.00
Alaskahaven	400	15.00
Westhaven	2,800	15.00-14.00
Hornhaven	660	5.50-12.50
ADM-haven	550	7.00-9.00
Sonhaven	830	13.00-9.50



Port of Amsterdam

Facts & Figures Nautical

Bosporushaven	800	5.00-13.00
Suezhaven	780	4.00-10.00
Beringhaven	390	5.50-9.00
Mainhaven	275	4.00
Moezelhaven	275	4.00
Jan van Riebeeckhaven	1,120	12.50-14.50
Carel Reinierszhaven	680	4.00-5.00
Usselinckhaven	1,000	12.50-14.50
Adenhaven	300	4.00-7.00
Petroleumhaven	900	10.00-10.50
Coenhaven	1,500	10.00
Mercuriushaven	1,375	4.00-15.00
Vlohaven	640	6.00-15.00
Neptunushaven	255	9.50
Minervahaven	375	6.50
Noordzeekanaal (Amfert)	310	10.50-13.00
Nieuwe Houthaven	90	6.50
Veemkade	600	10.00

Port of Amsterdam
P.O.Box 19406
1000 GK Amsterdam
Tel. 020-5234500
Fax 020-6209821
www.portofamsterdam.nl
info@portofamsterdam.nl

2. North Sea Canal in general

The North Sea canal has a breadth of 275 metres and a length of 20 km (11 nautical miles). Runs from the North Sea locks to the Coenhaven where the IJ begins and runs through the Oranje locks. Maximum of the North Sea Canal, as in the locks, is 17,8 metres or 45 ft (measured in salt water). For deeper ships (up to 16,5 metres or 54 ft, salt water) there are special lighter facilities outside the locks.

Navigation on the North Sea Canal and in the Port Areas

Maximum speed

Vessels with a draft up to 4 m.	18 km/hour
Vessels with a draft of 4 to 8 m.	14 km/hour
Vessels with a draft over 8 m.	12 km/hour

Signals for draft of 8 m. or more

Ships having a draft of 8 m. or more must carry a black cylinder at the foremast head in daytime and three red vertical lights under each other at night.



Facts & Figures Nautical

Deck cargo

It is forbidden to carry cargo on deck, reaching beyond the ship's side: however, a permit to make an exception to this rule can be given in writing by the harbourmaster on certain conditions. Permission from the Head Lock-master for passing the locks will be processed and cleared in collaboration with the Traffic Centre.

Reasonable speed

Masters are obliged to reduce speed when passing harbour entrances, moored craft or other objects that may be damaged by backwash. Such objects are usually marked as follows:

by day: red-white flag;

by night: a red light over a white light with a distance of 2 to 3 feet (0.5 to 1.0 metre).

Tunnels across the North Sea Canal

Velsertunnel, Wijkertunnel, Hemtunnel, Coentunnel, IJtunnel and Piet Hein Tunnel. Near Velsen, a combined tunnel-system for rail and road traffic. Between Petroleumhaven and Coenhaven a tunnel for road traffic. A railway tunnel, westward of the Westhaven, near the Hemferry.

Water levels in the North Sea and on the North Sea Canal

Near IJmuiden in the North Sea

(N.A.P. is 0.95 meter above LLWS)

Mean high water 0.97 m. + N.A.P

Mean low water 0.75 m. - N.A.P

Highest tide ever registered during a storm 3.85 m. + N.A.P

Lowest ebb tide ever registered 2.45 m.- N.A.P

On the North Sea Canal

Ordinary level of the water 0.40 m. - N.A.P

Lowest level of the water in the canal 0.60 m. - N.A.P

Dimensions of the North Sea Canal and its works

North Sea Harbour and outer canal

Length of the new North Pier 2210 m.

Length of the new South Pier 3170 m.

Distance of the harbour entrance and the end of the new South Pier from the foot of the dunes 2800 m.

Distance between the piers at the foot of the dunes 1200 m. Width of the harbour entrance is 400 m. Bottom width of the fairway outside the harbour at least 400 m.

Bottom width of the fairway in the harbour entrance 400 m. Distance between the new moles 750 m.

Length of the low moles along the outer fairway 300 m.

Distance between the low moles 220m.

Distance from the entrance of the Southern outer fairway to the Middle lock 1915m.

Distance from the entrance of the Southern outer fairway to the South lock 1440 m.

Depth of the Southern outer fairway and the fairway to the Middle lock 10 m. – NAP.

Depth of the fairway to the South locks 7.50 m. - NAP.

Bottom width of the outer fairway leading to the North lock 110 m.

Bottom width of fairway to the Middle lock 65 m. Bottom width of fairway to the South locks 43 m.



Port of Amsterdam

Facts & Figures Nautical

Approach Channel IJ-geul Mean level	-	19.80 m.
IJ-geul km 23-km 11.8 Mean level	-	19.50 m.
IJ-geul km 11.8-km 5.0 Mean level	-	19.20 m.
IJ-geul km 5.0-km 0.0 Mean level	-	19.20 m.
N.W. port mouth N.A.P.	-	19.20 m.
Old port mouth N.A.P.	-	18.00 m.
Berth of BUKA 2 wk. NAP.	-	18.00 m.
Mean level g NAP.	-	0.02 m.
Northern Outer fairway N.A.P.	-	19.2 m.

3. North Sea Locks

Distance from the Middle lock to the junction of the inner branch canal leading to the Middle lock and the main canal 1500 m.

Distance from the Southern locks to the junction of the inner branch canal leading to the Middle lock and the main canal 2050 m.

Distance from the Middle lock to the ferry near Velsen 1450 m.

Distance from the Middle lock to the Hemferry 16 603 m.

Distance from the Middle lock to the branch canal to Zaanstad 17 811 m.

Distance from the Middle lock to the Petroleum dock 1897 m.

Distance from the Middle lock to the harbour territory of Amsterdam 20 130 m.

Depth of the inner branch canal to the Middle lock 10.30 m. - NAP.

Depth of the canal leading to the Southern locks 6.40 m. - N.A.P.

Depth of the main canal up to Amsterdam 15.00 m. – N.A.P.

Passage of the Hemferry residue 55 m.

(2x) Height of passage under the High-tension cables over canal C 37.20 m.

Bottom width of North Sea Canal is from the tunnel near Velsen till the Hemtunnel 170 m.

In certain circumstances tugs are compulsory for lock clearance of the North and Middle lock. This depends on the summer deadweight, IMO-cargo and draft/beam license status of the ship. Congestion can be experienced for lock clearance during extreme deviation of the high waters when the locks can come above level. The total lock capacity will be reduced temporarily then.

The North Sea locks have a certain capacity. Ships must realize that a regular and updated ETA sent to Traffic Control can guarantee a lock clearance at arrival.

Towage and salvage

Sea-going tugs, harbour tugs and salvage vessels are available day and night at IJmuiden.

Harbour tugs for the assistance of vessels in the North Sea Canal and in the docks of Amsterdam and Zaanstad are stationed at IJmuiden and at Amsterdam. Divers, pumps, underwater cutting plant, sheer legs (capacity 60-90-125-130 and 300 tons) and further salvage equipment are available at short notice.



Facts & Figures Nautical

North Sea Locks

	North lock	Middle lock	South central lock
Length of lock chamber	400 m.	200 m.	100m.
Width of lock chamber	47.30m.	25 m.	18 m.
Depth of sill under NAP	15.00 m.	10.12m	8.00 m.
Number of pair of flood gates		2	2
Number of pair of ebb gates		2	
Maximum dimensions of vessels for passing the locks are:			
Length	350 m.	185 m.	95 m.
Width	45 m.*	24 m.	17 m.
Draft	137,5 dm.*	85 dm. **	60 dm
*vessels with a width of more than 43 m. or with a draft of more than 131 dm. in salt water must have a draft/beam license.			
**reglementary 80 dm.; between 80 and 90 dm. are subject to lock-master's discretion.			

In 2006 5742 ships passed the locks in IJmuiden.

IJsselmeer locks (Oranjesluizen)

	North lock	Middle lock	South lock	Prins Willem Alexander lock
Length of lock chamber	65 m.	85 m.	64 m.	200 m.
Width of passage	13.80 m.	17.80 m.	13.80 m.	24 m.
Depth of sill	4.50 m.	4.50 m.	4.50 m.	4.50 m.
Number of pair of flood gates	2	2	2	
Number of pair of ebb gates	2	2	2	



Port of Amsterdam

Facts & Figures Nautical

5. Useful Websites

www.oram.nl

ORAM is the Enterprise Association for the Amsterdam Region. ORAM started as a merger between three branch- and enterprise associations, which have stimulated the economic development of the Amsterdam region since 1917. The Amsterdam region consists of the Amsterdam Seaports, Schiphol international airport and several industrial areas in the Dutch capital.

www.kvsaguide.nl

The KVSAGuide is the most comprehensive guide to the North Sea Canal. It provides harbour information, regulations for the North Sea Canal and IJmuiden, port tariffs and relevant information about the North Sea Canal.

www.amports.nl

The Amsterdam Ports Association (AmPorts) is a public private partnership of enterprises and local government administrations based throughout the North Sea Canal. Its primary function is to maintain the port's international transport relations and the promotion of the port and transport industries of the region. AmPorts has 350 members, companies that are active in the port of Amsterdam and the municipalities Beverwijk, Velsen (IJmuiden) and Zaanstad.

www.amsterdamcruise.com

Amsterdam Cruise Port offers a package of shipping and tourist services in support of cruise calls. Partners are the two passenger terminals in the Amsterdam region, local and provincial authorities, the port authorities, port agents, incoming tour operators and the Amsterdam Tourist Board. The Amsterdam region is one of the major cruise destinations in North West Europe.

www.ptamsterdam.com

Passenger Terminal Amsterdam is a joint venture between the Port of Amsterdam, which is responsible for the maritime operation, and NS Stations, which is responsible for managing and marketing the terminal. The management and organisation of the terminal is undertaken by a compact, dedicated team within which short lines of communication and customer-orientation take centre stage.

www.ayop.com

AYOP provides information over the many possibilities for interested industries exploiting in the Amsterdam- IJmuiden region. Over the years, AYOP has developed into a unique organization, as the membership list now not only includes many oil-and-gas and port-related industries, but a number of government institutions as well.

www.portofamsterdam.nl

The port in fact belongs to the municipality of Amsterdam under whose instructions the port manages, operates and develops the port. The main aim is stimulating economic activity and employment in the entire Amsterdam port region. This website provides information about arrival & departures, cruises, regulations and port news.



Port of Amsterdam

Facts & Figures Nautical

6. Nautical Service Providers

Service: navigation of seavessels
Loodswezen Amsterdam-IJmond
T: 0031 255 564503
www.loodswezen.nl

Service: harbour towage
Svitzer Wijsmuller
T: 0031 255 562666
www.svitzerwijsmuller.nl

Service: mooring and demoring of seavessels
De Koperen Ploeg
T: 0031 20 4487090
www.dekoperenploeg.nl

Service: navigation of vessels
Amsterdam
T: 0031 20 5234771
IJmuiden
T: 0031 255 564150
www.portofamsterdam.nl

Service: towage and salvage
Iskes
T: 0031 255 510 182
www.iskestugs.nl

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Port of Amsterdam