

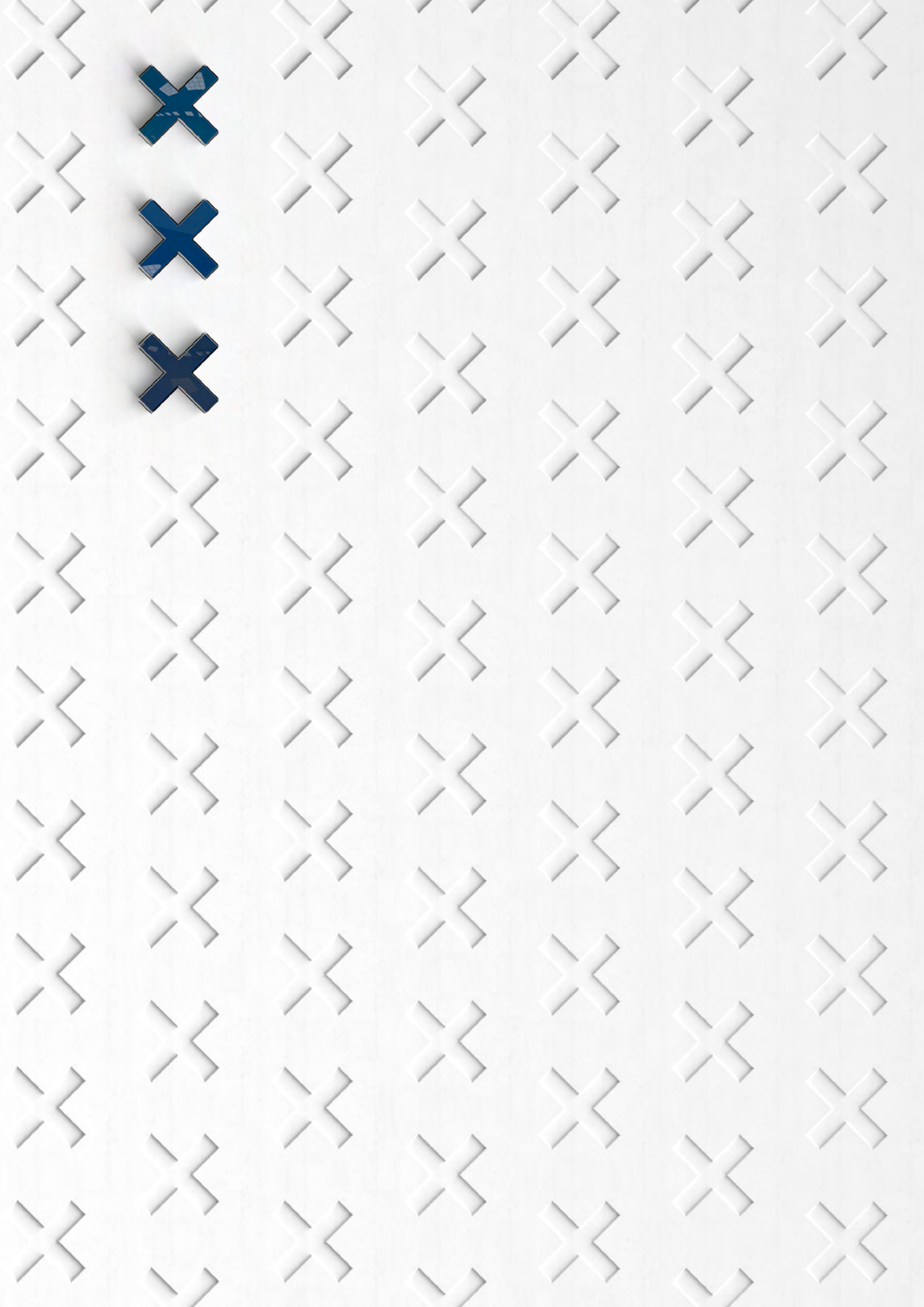


GS SEACON

**PORT
FOLIO
2019**

**We are
Your Team**

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We build a solid foundations of each investment project

GS Seacon Group ApS SP.K.

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01 INFRASTRUCTURE

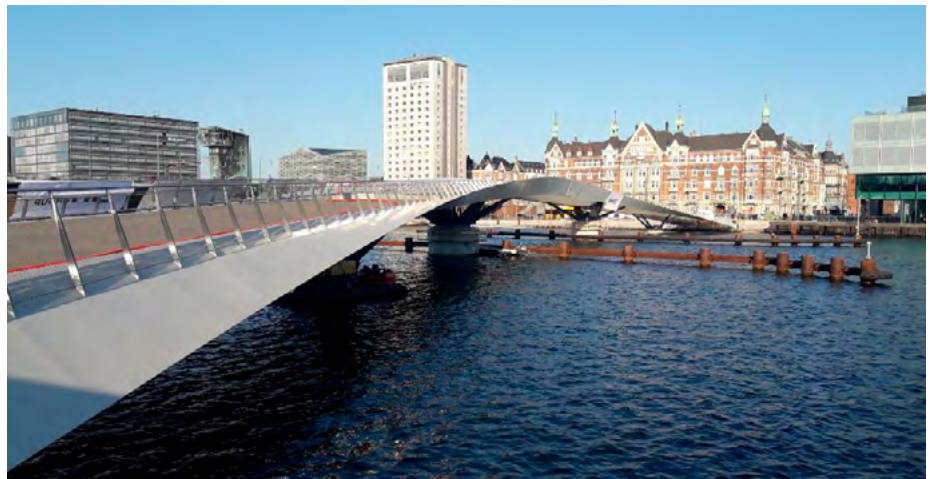
Bridges, tunnels, culverts

GS Seacon, as a subcontractor, takes part in projects related to the execution of road and railway infrastructure. Our portfolio includes several dozens of executed construction and modernisation projects in the field of road and railway bridges, tunnels, culverts as well as bike bridges, foot bridges and wildlife crossings. Each new project is based

on our previous experiences, thanks to which we can offer a wide range of services and solutions. Due to our participation in projects demanding extensive engineering knowledge, we apply the best technological processes available on the market and we introduce innovative technical solutions.





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Lille Langebro – Copenhagen


Lille Langebro project is the construction of a new bicycle/ pedestrian bridge over the canal in the heart of Copenhagen, connecting the downtown with Christianshavn and Islands Brygge. GS Seacon is involved in concrete works at both abutments of the bridge.

 **Scope of works:**
reinforcement installation,
carpentry works, concrete
casting

 **Construction time:**
May 2019 –
ongoing

 **Manpower:**
2 carpenters
2 steel fixers

 **Client:**
Realdania

 **Main Contractor:**
JV Mobilis Danmark – Hol-
landia Infra I/S

Hulembakken- Aalborg city development

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office@gsseacon.com



Aalborg City is currently developing a pilot project of a driverless bus route. For this purpose, 2,1 km path made of concrete slabs was built . GS Seacon was involved in the whole in-situ concrete scope of works.

↳ Scope of works:
installation of reinforcement,
carpentry works, concrete
casting, installation of cast-
in elements

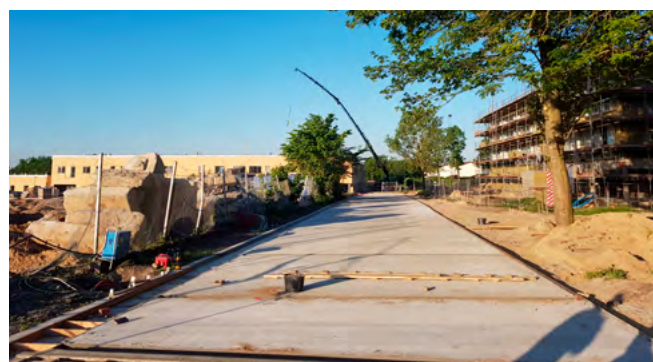
📅 Construction time:
April 2018 –
July 2018

👤 Manpower:
6 carpenters,
3 steel-fixers

➡ Client:
Aalborg Kommune

🔗 Main Contractor:
Arkil A/S

Supervision:
1 engineer





Bridge – Masned Sund

The new 6-span bridge over Masned Sund will be 200 metres long and 14 metres wide. The project also includes an extension from one to two tracks, which will enable two-way traffic. The bridge work is part of the Ringsted–Fehmarn Railway Line Project, which includes the expansion from a single to a double track as well as electrification of the entire section. In the future the new bridge will serve as a link with Fehmarnbelt in the upcoming permanent connection between Denmark and Germany.

Number of spans: 6 with
the length of 33 m each
Number of bearings: 5
Amount of concrete used:



Scope of works:

The project included the pre-fabrication of elements such as bearings and spans.



Construction time:

2018



Manpower:

54 workers involved in the project



Client:

Per Aarsleff A/S



Main Contractor:


Aarsleff BIZ Sp. z o.o.

Port – Esbjerg Strand


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office@gsseacon.com





The modernisation and expansion of the port in Esbjerg, Denmark. The produced parts are prefabricated anchor plates. We were responsible for manufacturing 816 prefabricated elements with the total weight of 5150 t.

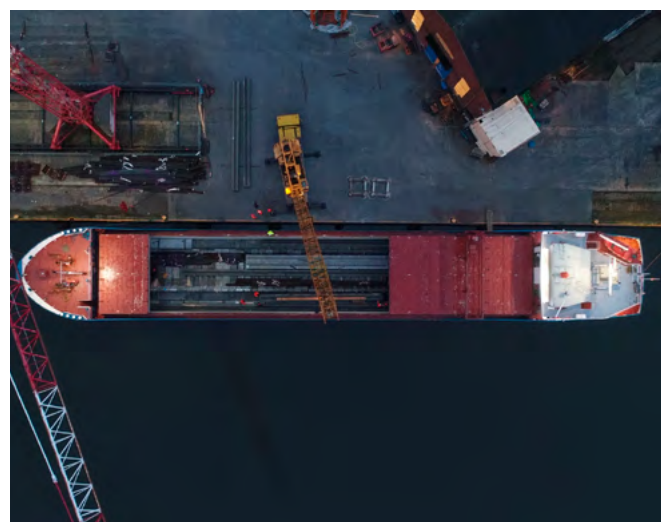
 **Scope of works:**
Manufacturing prefabricated elements

 **Construction time:**
2017–2018

 **Manpower:**
22 workers involved in the project

 **Client:**
Per Aarsleff A/S

 **Main Contractor:**
Aarsleff BIZ Sp. z o.o.








E3003, E3004 Bridges Ringsted-Næstved-Vordingborg

The project involves the modernization and speed upgrade of existing engineering structures along the E3003 and E3004 Ringsted-Næstved-Vordingborg railway lines. The existing bridges do not fulfil the requirements for the clearance profile of an electrified railway line and will be replaced by new constructions.


Number of Bridges: 36
Difference structures:
reinforced concrete, post-tensioned concrete,

 **Scope of works:**
Installation of reinforcement, carpentry works, concrete casting, machinery operation

 **Construction time:**
March 2017 – ongoing

 **Manpower:**
40 steel fixers
30 carpenters
10 machinery drivers

 **Client:**
Banedanmark

 **Main Contractor:**
MT Hojgaard A/S

Supervision:
4 engineers

Footbridge – Køge Kyst

www.gsseacon.com
office@gsseacon.com



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The works included, in particular:

- recreational part: footbridge entrance, cast-in-situ reinforced concrete – ca. 360 m² with benches
- enforced concrete joining the footbridge with prefabricated beams in the amount of ca. 2000 m²



Scope of works:

Installation of reinforcement, carpentry works, concrete pouring



Construction time:

April 2017 –
December 2017



Manpower:

3 steel fixers
4 carpenters



Client:

Køge Kyst



Main Contractor:

Arkil A/S

Supervision:


1 foreman






Port – Frederikshavn


The expansion of the Frederikshavn port in Denmark. Manufacturing of prefabricated walls and anchor plates.

 **Scope of works:**
Manufacturing prefabricated elements

 **Construction time:**
2017

 **Manpower:**
50 workers involved in the project

 **Client:**
Per Aarsleff A/S


 **Main Contractor:**
Aarsleff BIZ Sp. z o.o.

Visby cruise ship quay


www.gsseacon.com
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The construction of a cruise ship quay from precast elements. Location: The Port of Visby on Gotland, Sweden. The pier consists of 22 foundations, 20 decks and 2 mooring dolphins. Weight of one element: ca. 650 t.

 **Scope of works:**
Construction from precast elements

 **Construction time:**
2016–2017

 **Manpower:**
158 workers involved in the project

 **Client:**
Per Aarsleff A/S

 **Main Contractor:**
Aarsleff BIZ Sp. z o.o.





Bridge – Sallingsund

- Production of foundations for fender beams of the Sallingsund bridge (Denmark)
- 4 elements produced
- Dimensions of 1 element: 15 x 15 x 6 m
- Weight: 450–600 t



Scope of works:

Manufacturing prefabricated elements



Construction time:

2016



Manpower:

81 workers involved in the project



Client:

Per Aarsleff A/S



Main Contractor:

Aarsleff BIZ Sp. z o.o.

TP4 Tunnel – Denmark

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office@gsseacon.com

- Production of tunnel decks and sidewalk elements for 2 railway tunnels located in Copenhagen
- Total length of tunnels: ca. 3 km
- total amount of elements: ca. 1,000 beams and 4,000 paving flags.
- Deck beam dimensions: 13.0 x 1.30 x 0.8 m
- Weight: 25 t



-  **Scope of works:**
Manufacturing prefabricated elements
-  **Construction time:**
2015–2016
-  **Manpower:**
75 workers involved in the project
-  **Client:**
Per Aarsleff A/S
-  **Main Contractor:**
Aarsleff BIZ Sp. z o.o.





Underpass – Køge

The works included, in particular:

- foundation works
- earthwork and soil compacting
- prefabricated formworks and in-situ reinforcement of the load-bearing system (a larger platform ca. 270 m², a smaller platform ca. 120 m²)
- in-situ-cast of the load-bearing structure on a pre-assembled platform



Scope of works:

Installation of reinforcement, carpentry works, concrete pouring



Construction time:

May 2017 –
September 2017



Manpower:

5 steel fixers
5 carpenters



Client:

Køge Kyst



Main Contractor:

Arkil A/S

Supervision:

1 foreman

Bridge – Aalborg Ring Syd

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office@gsseacon.com



The construction of a bridge as an extension of Mariendals Mølle Motorvejen over the E45 motorway. The project included: the execution of foundations, abutments and a bridge deck. The bridge was designed as a prestressed T-beam construction.

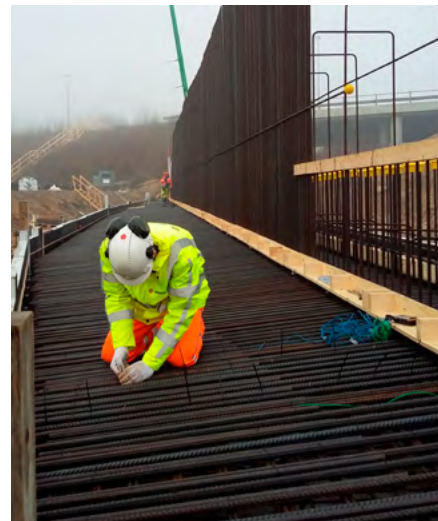
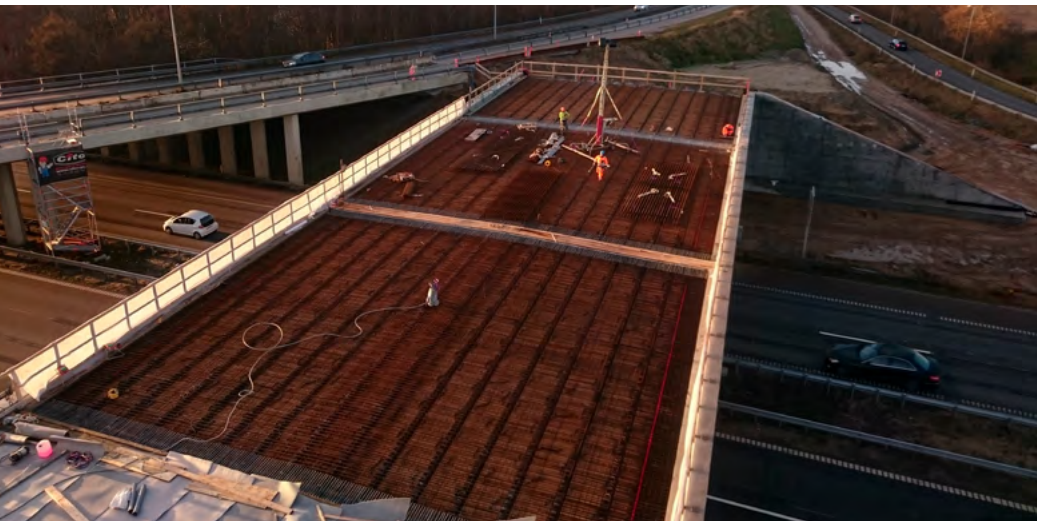
Scope of works:
Installation of reinforcement, carpentry works, concrete pouring, operation of construction equipment

Construction time:
November 2015 – November 2016

Manpower:
4 steel fixers
4 carpenters
1 crane operator

Client:
Aalborg Kommune

Main Contractor:
MJ Erriksson A/S, Strukton International Denmark A/S





Bridges on Lolland

The entire project consisted of 18 new road bridges on the railway line between Orehoved and Rødby, on the Danish islands of Lolland and Falster. GS Seacon supported the construction of 4 of them. The railway line will be expanded from one to two tracks and electrified.

Scope of works:
Installation of reinforcement, carpentry works, concrete pouring, operation of construction equipment

Construction time:
June 2016 – September 2016

Manpower:
4 steel fixers
4 carpenters
1 forklift operator

Client:
Banedanmark

Main Contractor:
Arkil A/S

Næstved bypass – Suså river bridge

www.gsseacon.com
office@gsseacon.com



The entire project included a 500 m expansion of the Næstved Bypass, which is part of the road link that connects the towns of Rettestrup and Rønnede. The project included three bridges that span the Suså River, the Sydbanen railway and a local street, Ringstedgade. GS Seacon supported the finishing works on two of the bridges.



Scope of works:

Installation of reinforcement, carpentry works, concrete pouring



Construction time:

July 2016 –
October 2016



Manpower:

3 steel fixers
3 carpenters



Client:

Vejedirektoratet



Main Contractor:

Arkil A/S







TP40 The New Line Copenhagen – Ringsted

18 km of soilwork stretching from Greve, Centervej to Køge, Egedesvej. The Project includes 30 different in size and type constructions of bridges, fauna passages, embankments, retaining walls and roads.


Largest bridges:
211 m, 516 t of steel

 **Scope of works:**
Reinforcement assembly

 **Construction time:**
March 2014 –
September 2016

 **Manpower:**
12 steel fixers

 **Client:**
Banedanmark

 **Main Contractor:**
Züblin A/S

Supervision:
1 foreman

Road tunnel- Køge North

Building new road tunnel to relieve the traffic congestion in city center. Crossing under several railtracks in order to connect Ivar Huitfeldtsvej and Værftsvej.

Total length: 400 m
Tunnel length: 150 m

Scope of works:
Reinforcement assembly, carpentry, membrans and sealing, machinery operation

Construction time:
May 2015 – June 2016

Manpower:
12 steel fixers
4 carpenters
2 crane operators

Client:
Køge Kyst P/S

Main Contractor:
Per Aarsleff A/S

Supervision:
1 engineer








Bicycle and pedestrians bridge Copenhagen

Bridge length: 140 m
Bridge width: 7 m


New bridge, exclusively for bicycles and pedestrians, along the Ove Arups Vej, over the highway and railway. The Bridge is going to connect two Ørestad Neighborhoods together.

 **Scope of works:**
Reinforcement assembly,
carpentry, support system
assembly

 **Construction time:**
May 2015 –
February 2016

 **Manpower:**
12 steel fixers and carpenters
1 crane operator

 **Client:**
By & Havn

 **Main Contractor:**
Mobilis Danmark A/S

Supervision:
1 foreman

Helsingør- motorvejen

3 road bridges
over the highway

Expanding the highway from 4 to 6 lanes from Gl. Holte to Hørsholm S. Building 3 bridges over the highway including the one that collapsed in September 2014. Bridges on Øverødvej, Gøngehusvej and Egebækvej.



Scope of works:

Reinforcement assembly, carpentry, machinery operation, support system assembly



Construction time:

April 2015–
April 2016



Manpower:

15 steel fixers
15 carpenters
3 crane operators



Client:

Vejdirektoratet



Main Contractor:

Mobilis Danmark A/S

Supervision:

1 engineer





Road bridge- Svenstrup

Replacing the existing level crossing with a new bridge in Svenstrup, to increase the speed of trains from 120 km/h to 160 km/h and reduce the travel time on Hobro-Aalborg route.

Length of the bridge:
110 m + 80 m of the ramp

Width of the bridge:
12.4 m

Consumed concrete:



Scope of works:

Reinforcement assembling, carpentry, support system assembling.



Construction time:

September 2015 – December 2015



Manpower:

6 steel fixers
8 carpenters
1 crane operator



Client:

Banedanmark



Main Contractor:

Arkil Bro & Beton A/S

Supervision:

1 engineer

New bridge Terslev Skolevej, Haslev

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office@gsseacon.com



Tearing down the existing bridge over the railroad and erection of a new, wider one, with two lanes with up to 60 km/h speed limit. The bridge is additionally higher than the old one by 0,8 m.

Scope of works:
Reinforcement assembly, carpentry, support system assembly

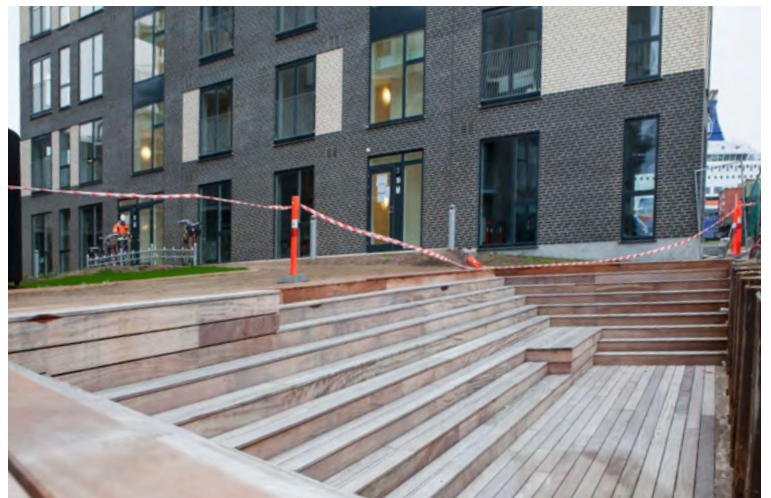
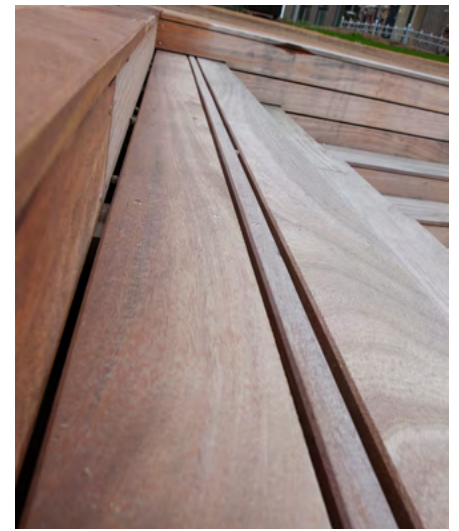
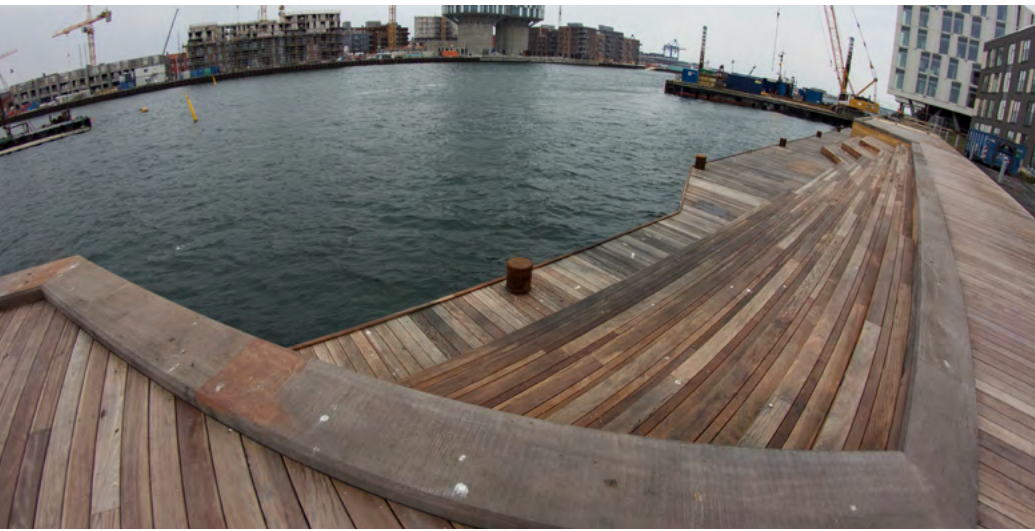
Construction time:
September 2015 – October 2015

Manpower:
6 steel fixers, 4 carpenters

Client:
Banedanmark

Main Contractor:
Strukton A/S







Promenade in Marmormolen 1st stage, Copenhagen


Promenade initial area: 1070m²

Creating a wooden promenade for pedestrians and cyclist, with direct access to water along northbasin in Marmormolen, Copenhagen.

 **Scope of works:**
Carpentry

 **Construction time:**
April 2015 –
September 2015

 **Manpower:**
5 carpenters

 **Client:**
Marmormolen P/S

 **Main Contractor:**
Per Aarsleff A/S

New Bridges Arken Museum, Ishøj

Number of Bridges: 4

Creating Art Island by redefining terrain around the Arken Museum of Modern Art, Ishøj. 4 bridges have been constructed as a part of the project.



Scope of works:

Reinforcement assembly, carpentry



Construction time:

April 2015 – August 2015



Manpower:

5 steel fixers
5 carpenters



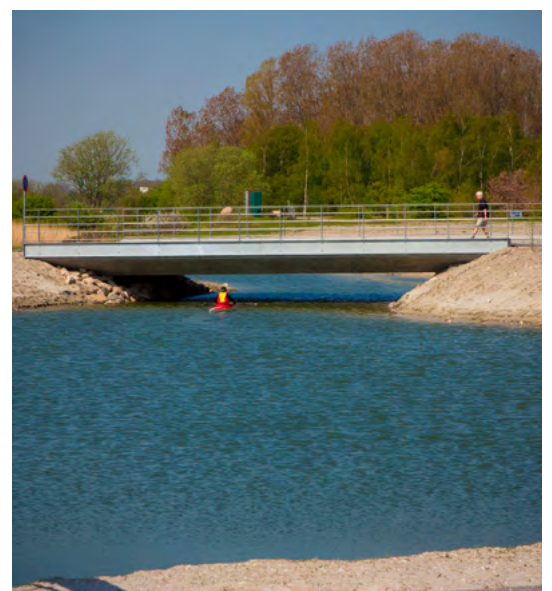
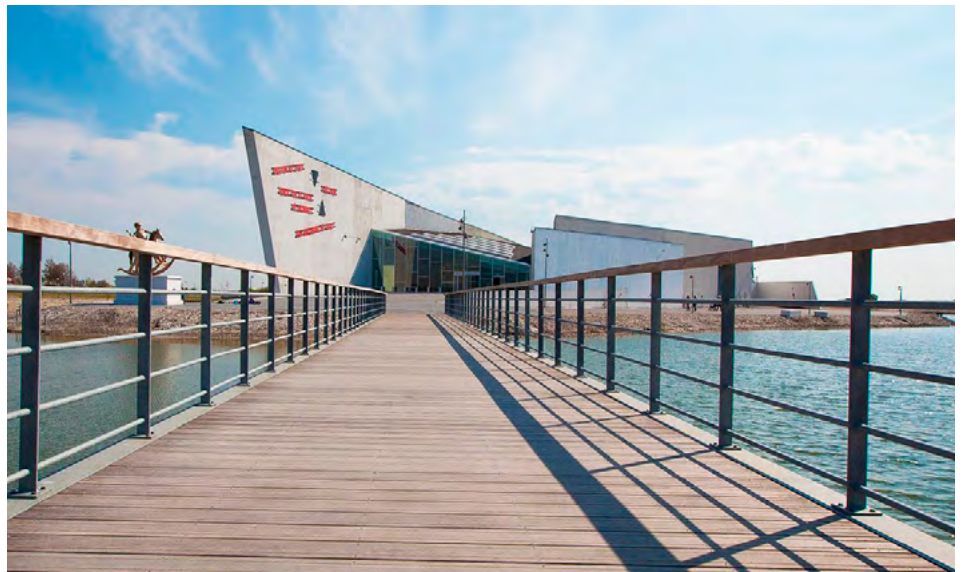
Client:

Ishøj Kommune



Main Contractor:

Mobilis Danmark AS








Passage between Nordhavn and Østerbro, Copenhagen

Length: 100 m

New shortcut for pedestrians, cyclists and wheelchair users between Østerbros Nordre Frihavsgade and Kalkbrænderihavsgade. Project included elevating the train tracks to get sufficient height and changes in sewers to avoid the risk of flooding.

 **Scope of works:**
Reinforcement assembly, carpentry, machinery operating

 **Construction time:**
February 2015 – May 2015

 **Manpower:**
4 steel fixers
4 carpenters
1 crane operator

 **Client:**
By & Havn

 **Main Contractor:**
Per Aarsleff A/S

Supervision:
1 foreman

Køge Bugt Motorway, stage 2

This contract is a part of the investment related to the Solrød Syd-Køge motorway, incorporated into the E20 Køge Bugt Motorvejen. The contract encompassed the expansion of the motorway from 6 to 8 lanes over the distance of 5 km, including a new bridge near Egedesvej, expansion of the existing structures as well as the construction of new ones along with new street furniture elements.

3 road bridges over the motorway

1 road bridge over the railway tracks

5 culverts and pedestrian & animal crossings



Scope of works:

Installation of reinforcement, carpentry works, operation of construction equipment and installation of supporting structures



Construction time:

May 2014 –
October 2016



Manpower:

25 steel fixers
20 carpenters
4 crane operators

Supervision:

2 engineers



Client:

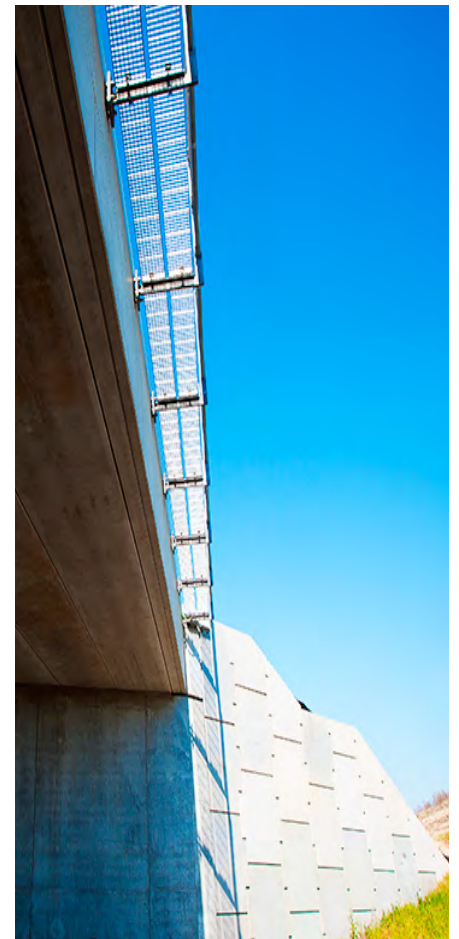
Vejdirektoratet



Main Contractor:

Mobilis Danmark A/S






TP 41 The New Line Copenhagen – Ringsted


Length: 4.8 km

Number of bridges: 12

The project encompassed 12 bridges between the Ishøj junction and Greve Centervej along TP 41 railroad. The project provided for the construction of railway and road bridges of various lengths as well as animal crossings.

 **Scope of works:**
Reinforcement assembly, carpentry, machinery operating, support system assembly

 **Construction time:**
March 2014 – August 2015

 **Manpower:**
6 steel fixers
4 carpenters
1 crane operator

 **Client:**
Banedanmark

 **Main Contractor:**
Per Aarsleff A/S


Supervision:
1 foreman

Frederikssundmotorvejen


Length: 4,4 km


Number of Bridges: 7


The project encompassed designing and construction of a new, two-lane expressway along the section of 4.4 kilometres and the construction of 7 different bridge structures along the entire length. Our main task was the installation of reinforcement. The road connects O3 Copenhagen ringroad and the motorway section of the O4 ringroad which intersects Køge Bugt motorway at the Ishøj junction further south.

 **Scope of works:**
Installation of reinforcement

 **Construction time:**
January 2014 –
October 2014

 **Manpower:**
8 steel fixers
1 crane operator

 **Client:**
Vejdirektoratet

 **Main Contractor:**
Mobilis Danmark A/S





Karlstrup Mose Bridges

Number of bridges: 4

Length: 145 m

Rebuilding of 2 bridges and construction of 2 new ones on the existing line between Greve S and Solrød S within the expansion of the Copenhagen – Køge highway.

scope of works:
Reinforcement assembly, carpentry, machinery operating, support system assembly

Construction time:
August 2013 – October 2014

Manpower:
9 steel fixers
16 carpenters
4 machinery drivers

Client:
Vejdirektoratet

Main Contractor:
Züblin A/S

Supervision:
1 engineer


Køge Bugt Motorway, stage 1


Length: 4,8 km


Structures: several bridges


Earth and construction works stretching from Greve S to Solrød S. Bridge structures, as well as access roads, fauna passages, retaining walls and embankments. In addition number of roads were either relocated or reconstructed.

 **Scope of works:**
Reinforcement assembly

 **Construction time:**
May 2013 –
December 2014

 **Manpower:**
20 steel fixers

 **Client:**
Vejdirektoratet

 **Main Contractor:**
Züblin A/S

Supervision:
1 foreman






Frederikssundsmotorvejen, Tværvej


Length: 3.8 km


Bridges: 5


The project encompassed construction of the expressway along the section of 3.8 kilometres as well as 5 different bridges located along the entire length of the road. Frederikssundmotorvejen expressway is an important connection between O3 Copenhagen ringroad and O4 ringroad section.

 **Scope of works:**
Installation of reinforcement

 **Construction time:**
May 2013 –
December 2013

 **Manpower:**
6 steel fixers
2 crane operators

 **Client:**
Vejdirektoratet

 **Main Contractor:**
Mobilis Danmark A/S

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GS SEACON

02 CONSTRUCTION

In-situ construction & precast concrete elements. Industrial, specialist and residential housing construction

GS Seacon is more and more frequently present in the construction and modernisation of public facilities. So far we have provided our services in the field of, among others, reconstruction of technological facilities for sewage treatment plants & modernisation and construction of two additional tanks for the largest sewage treatment plant in Denmark located on the island of Amager in Copenhagen. Acting as the general subcontractor, we have been engaged in the construction of a new power unit in Copenhagen as well auxiliary construction of a reinforced concrete tank for biomass. In the military base of the United States of America in Greenland we made concrete floors that demanded huge precision. Our specialists are also proven in the construction of commercial buildings – as a subcontractor we have executed all works related to the erection of the raw state of

the city hall and health care centre in Stenlose for Egedal Municipality in Denmark. We also participated in the initial stage of the construction of Maersk Building Panum Complex in Copenhagen.

Residential housing construction is another field we operate. As a subcontractor, we have implemented a series of works related to construction and finishing of flats and apartments in Copenhagen.

Thanks to our experience gained over the last years, we commence new orders with priceless knowledge, which allows us to guarantee high quality of performed services as well as the application of the latest solutions in technology at each stage of construction.



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Silo in Brande

Diameter: 50 m
Height: 52 m
Wall thickness: 300 mm

The construction of a concrete silo used for storage of potato flour, within the existing factory located in Brande. The structure of the silo has been constructed over 3 weeks of 24-hour work using slipform method. Value of the silo is predicted to store ca. 90 000 m³ of potato flour. GS Seacon was involved in the whole construction process, which involved in particular:

- Foundation works (carpentry, steel fixing, concrete casting)
- Steel-fixing works during slipforming of the silo



Scope of works:

installation of reinforcement, carpentry works, concrete casting, machinery operation



Construction time:

January 2018 – June 2018



Manpower:

45 steel-fixers
4 crane operators



Client:

KMC International

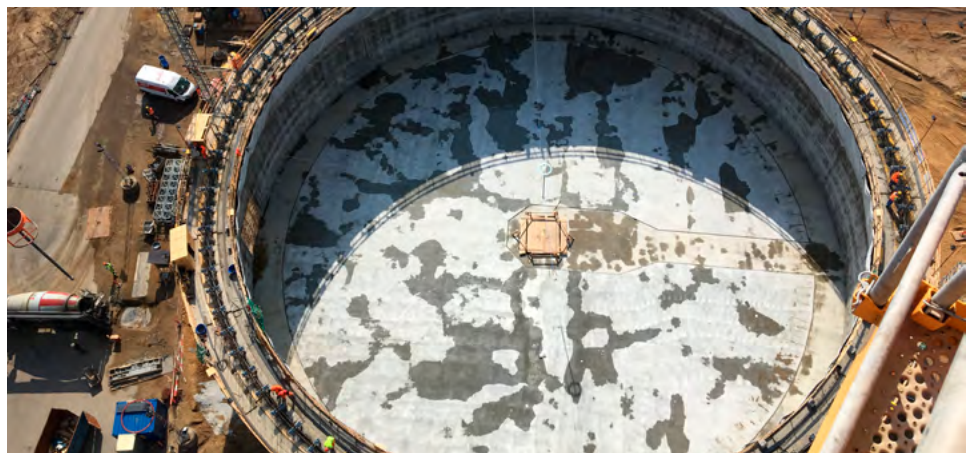


Main Contractor:

Arkil A/S

Supervision:

2 engineers





Silo in Langholt

Diameter: 50 m
Height: 55 m
Wall thickness: 300 mm

Another concrete silo built with the use of slipforming. The silo is located in existing potato flour processing factory in the town of Langholt in northern Jutland. Nearly 700 tons of reinforcement were used for construction of both foundation slab and walls of the silo.

Scope of works:
installation of reinforcement, carpentry works, concrete casting, machinery operation

Construction time:
April 2018 – September 2018

Manpower:
36 steel fixers
4 crane operators

Client:
AKV Langholt Amba

Main Contractor:
Arkil A/S

Supervision:
2 engineers

Asnæs Power Plant in Kalundborg

Extension of Asnaes heat and power plant located in Kalundborg. The main purpose of the project is conversion of the power plant from coal to sustainable biomass. It included construction of separate plant unit connected to existing facility. GS Seacon was involved in all concrete works.



Scope of works:

installation, carpentry works, concrete casting, crane operation



Construction time:

March 2018 –
December 2018



Manpower:

20 carpenters
25 steel-fixers
7 crane operators



Client:

Ørsted

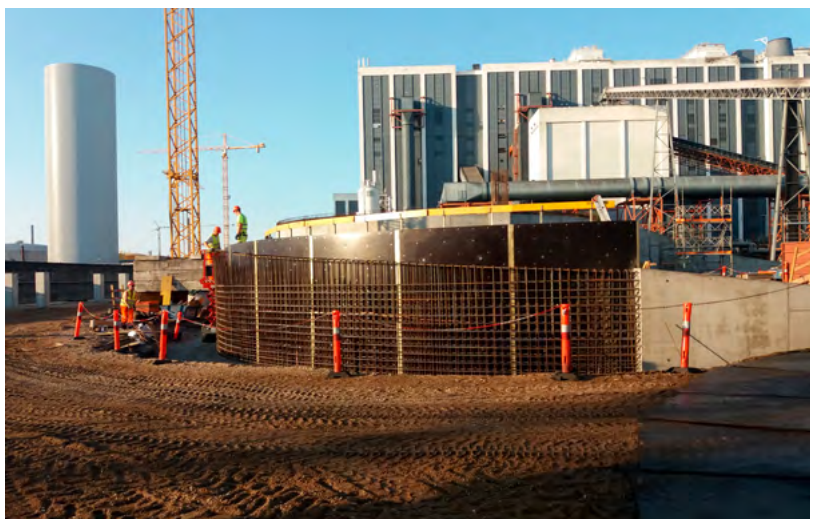


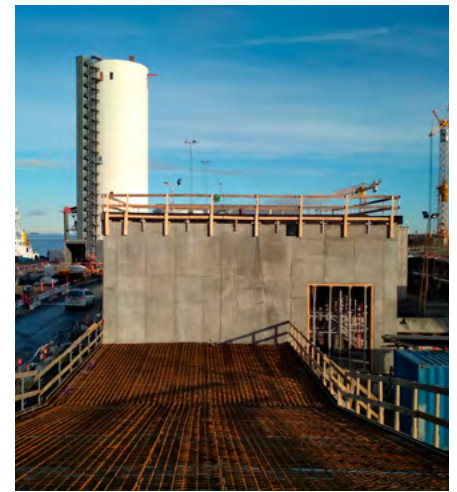
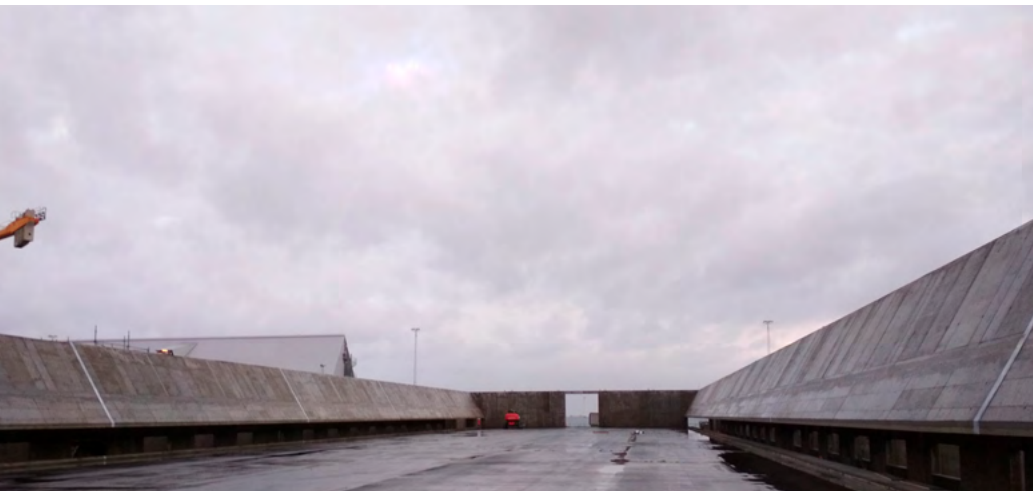
Main Contractor:

Per Aarsleff A/S

Supervision:

3 engineers





BIO4 – Enterprise 5

The B5 project for Amagerværket is a continuation of the extension of the existing HOFOR power plant. The project includes the construction of transport channels and two warehouses for wooden chips which will supply the new power plant block.

Material:
Concrete – 2800m³



scope of works:

Installation of reinforcement, carpentry works, concrete pouring, machinery operations



Construction time:

May 2017 –
April 2018



Manpower:

25 steel fixers
30 carpenters
4 machinery drivers



Client:

Hofor



Main Contractor:

Arkil A/S

Supervision:

2 engineers

BIO4 – Amager Power Plant

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The new power generating unit at the Amager Power Station has been named 'BIO4' and is expected to be completed in 2020. The block will be fueled by sustainable biomass in the form of woodchips. GS Season was involved in all the concrete works.



Scope of works:

Installation of reinforcement, carpentry, concrete pouring, machinery operation



Construction time:

November 2016 –
January 2018



Manpower:

30 steel fixers
20 carpenters
8 crane & forklift operators



Client:

Hofor

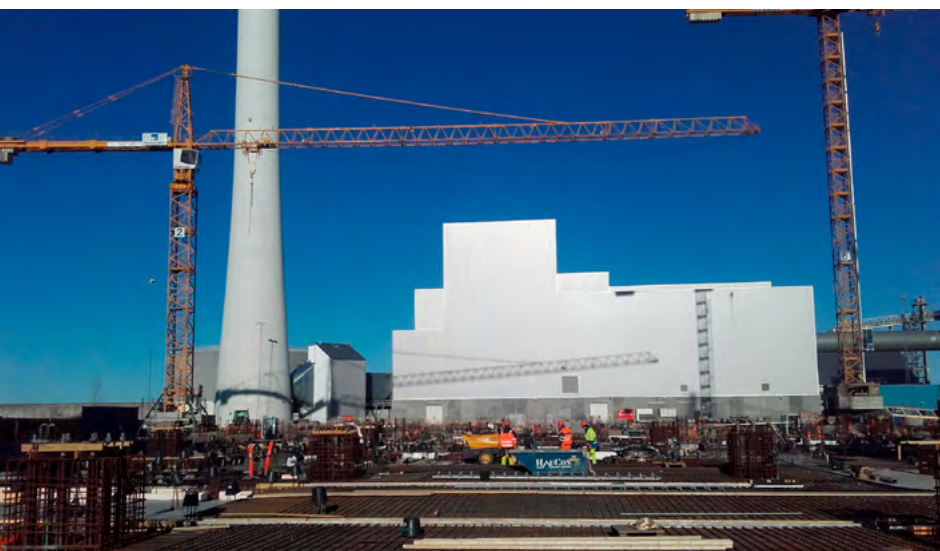


Main Contractor:

Per Aarsleff A/S

Supervision:

2 engineers
1 foreman





BIO4 – Copenhagen

The execution of 700 prefabricated filigree elements for the construction of a power plant block in Copenhagen.

Scope of works:
execution of prefabricated elements

Construction time:
2017

Manpower:
11 workers involved in the project

Client:
Per Aarsleff A/S

Main Contractor:
Aarsleff BIZ Sp. z o.o.

Skærbæk Power Plant – DONG

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- Danish Energy supplier DONG converted an existing power station into a modern one, producing Energy from biomass (wood pellets)
- The pellet depot's size is ca. 120 x 22 m
- The main construction is made of precast elements (1500m³ of concrete)



Scope of works:

Installation of reinforcement, carpentry, concrete pouring, machinery operation



Construction time:

2016–2017



Manpower:

32 workers involved in the project



Client:

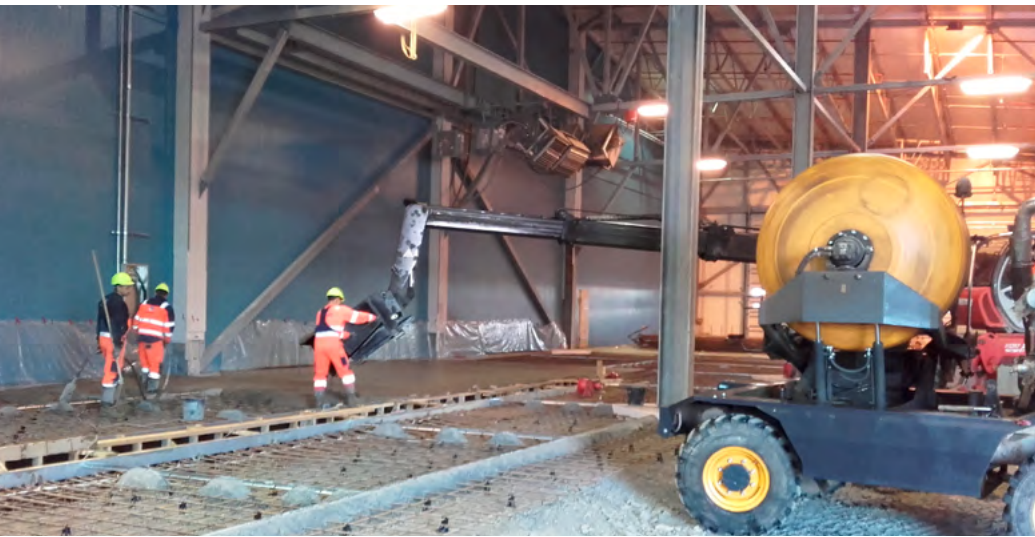
Per Aarsleff A/S



Main Contractor:


Aarsleff BIZ Sp. z o.o.






Thule Air Base – Greenland


The project included the construction of concrete slabs in the technical rooms and the repairing of the existing pavements. The rooms are located at the US Army's Thule Air Base.

 **Scope of works:**
Installation of reinforcement, carpentry works, concrete pouring

 **Construction time:**
August 2016 – May 2017

 **Manpower:**
4 steel fixers
2 carpenters

 **Client:**
US Army

 **Main Contractor:**
Per Arsleff A/S


Supervision:
1 engineer

Lynetten sewage treatment plant – Copenhagen


Number of tanks: 2

Volume each: 6000 m³


The modernisation and the extension of the Lynetten sewage treatment plant owned by BIOFOS, the largest wastewater utility in Denmark. The project included the construction of two new tanks as well as numerous other works related to concrete treatment.

 **Scope of works:**
Installation of reinforcement, carpentry works

 **Construction time:**
September 2015 – March 2017

 **Manpower:**
10 steel fixers and carpenters

 **Client:**
BIOFOS


 **Main Contractor:**
MT Højgaard A/S






Biofos – grates consolidation


The new block for screening the waste and drainage water is simultaneously executed with the new pumping station on Amager island. Due to waste water increase and stronger requirement for purification of the treated water the new block for screening and related modernization of the existing building was carried out.

 **Scope of works:**
Reinforcement assembly,
carpentry, concrete casting,
machinery operation

 **Construction time:**
October 2016 –
February 2017

 **Manpower:**
12 steel fixers
6 carpenters

 **Client:**
BIOFOS

 **Main Contractor:**
MT Hojgaard A/S

Supervision:
1 engineer

Walls prefabrication – Arm-Tec

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The project included the construction of hundreds of reinforced concrete walls for bus bays in Copenhagen. GS Season supported the prefabrication process by steel-fixing and casting. Prefabrication took place at the Årslev – Arm-Tec fabrication yard.



Scope of works:

Installation of reinforcement, concrete pouring, forklift



Construction time:

June 2016 –
October 2016



Manpower:

3 steel fixers
1 driver
1 welder

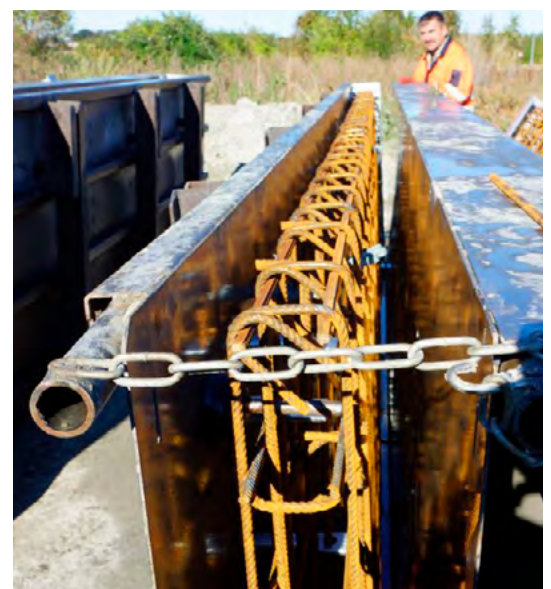


Main Contractor:

Arm-Tec

Supervision:


1 engineer





Strandgården – works with AAC blocks


Strandgården – a 7 floor apartment complex was erected in front of Amager Beach and consists of 56 condominiums with 2 to 5 rooms. GS Seacon carried out the interior works using Silka autoclaved aerated concrete blocks as well as the related concrete works.

 **Scope of works:**
block works, concrete works

 **Construction time:**
July 2016 –
November 2016

 **Manpower:**
12 bricklayers

Supervision:
1 foreman

 **Main Contractor:**
Casa A/S

Town Hall and Health Center, Egedal

Total cubage: 94,242 m³
Total floorage: 19,348 m²

Modern townhall and health center for Egedal community in the metropolitan area of Copenhagen. The five-storey building includes space for administration and offices, furthermore a ground-floor council, event hall and canteen. The adjacent health center contains training rooms for children and adults, rehabilitation facilities and 20 residential units for assisted living. The buildings with slate facade are surrounded by green areas, carparking and a rooftop garden.



Scope of works:

Reinforcement assembly, carpentry, precast elements assembly, bricklaying, floors, all other works until open shell stage.



Construction time:

July 2013 –
March 2014



Manpower:

30 steel fixers
20 carpenters
4 crane drivers

Supervision:

3 engineers



Client:

Egedal Commune



Main Contractor:

Züblin A/S






Mærsk Bygningen Panum Copenhagen


No. of floors: 16

Floor space: 42,700 m²


Over 42 thousand square metres house areas dedicated to scientific research and education. Panum is a large complex of buildings and a part of the Copenhagen University with the new building, i.e. Maersk, being another stage of the modernisation of the complex. The first step in process of completion of the project was to pull down the structure occupying the area of 7,700 square meters to create space for a new courtyard with the main entrance, green areas and twice as many parking spaces for bicycles.

 **Scope of works:**
Reinforcement assembly

 **Construction time:**
May 2013 –
February 2014

 **Manpower:**
40 steel fixers

 **Client:**
Mærsk


 **Main Contractor:**
Züblin A/S

Supervision:
2 engineers


LNG Terminal in Świnoujście

4,000 tons of steel
4,500 Lenton joints


The project completed in Świnoujście was a strategic investment. In the case of this project, we were responsible for the prefabrication of reinforcing steel and we participated in the reinforcement of walls of TK 2011 and TK 2012 tanks on the LNG Terminal construction site. The diameter of each of the tanks is 80 meters and each can store up to 160,000 m³ of liquified gas. The delivery of reinforcing steel as well as other works were carried out 24 hours a day using slipform shuttering method. The average rate for the erection of walls was 2 meters per day. This allowed us to complete two 40 meters high tanks in two months.

 **Scope of works:**
Preparation and installation of reinforcing steel

 **Construction time:**
2011-2012

 **Manpower:**
43 steel fixers
25 steel yard employees

 **Client:**
Polskie LNG SA

 **Main Contractor:**
Hydrobudowa PBC,
Uniserv SA



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GS SEASON

03

OFFSHORE & MARINE

Foundations for offshore wind farms and other marine structures

Offshore wind power engineering is one of the most dynamically developing power technologies in the world. Our company has specialised in delivery of this type of services for over 16 years. So far we have participated in the construction of almost 400 pieces of reinforced concrete foundations and platforms under wind power stations.

What is more, GS Seacon possesses experience in the following areas of construction:

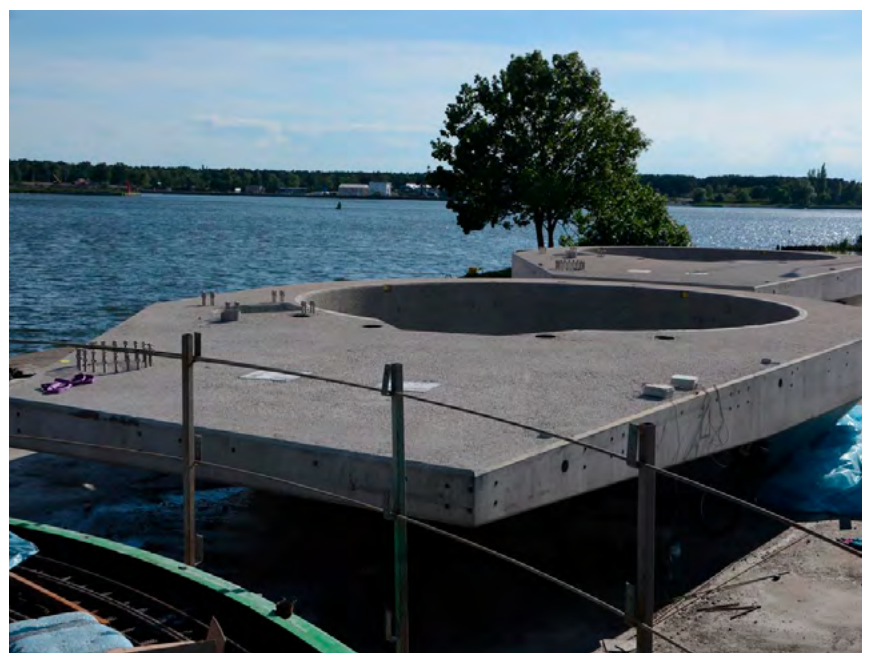
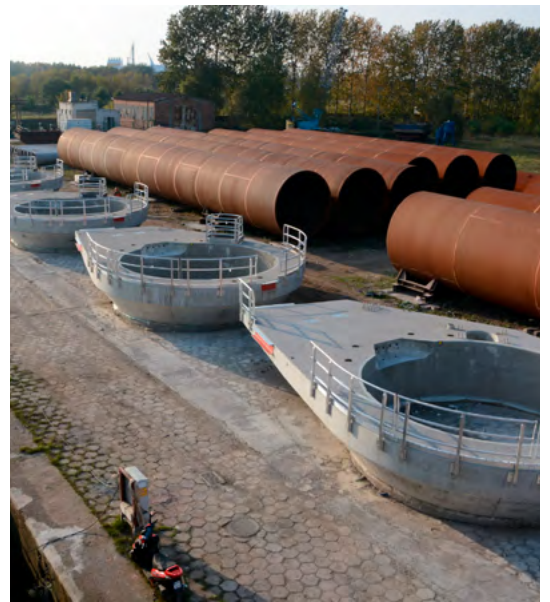
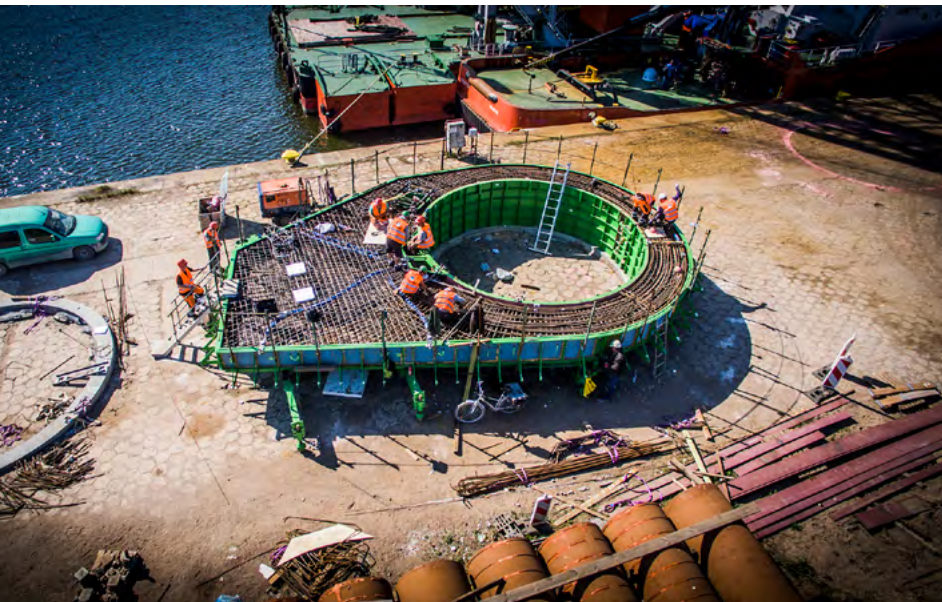
harbours – we took part in reconstruction and development of Stockholm Värtahamnen Harbour and a Danish naval base in Frederikshavn

quays, breakwaters – we have provided subcontracting services for one of the largest in last years investments in Poland in the field of hydrotechnology – the construction of an over 3km long breakwater as well as the Western Groin in Swinoujście

manufacture of structures aimed at protecting the coast against the impact of sea waves: tetrapod blocks and X-blocks. In case of the latter, the applied technology allows to resign from reinforcing steel which liquidates the corrosion problem.




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Borkum Riffgrund 2 offshore wind farm


The construction of 36 foundations for the offshore wind farm in Nordenham, Germany.

 **Scope of works:**
Construction of foundations

 **Construction time:**
2017

 **Manpower:**
35 workers involved in the project

 **Client:**
Steelwind Nordenham

 **Main Contractor:**
Aarsleff BIZ Sp. z o.o.


Hornsea offshore wind farm

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GS SEACON


The production of 21 concrete platforms for foundations of a wind farm in the UK.

 **Scope of works:**
Production of platforms

 **Construction time:**
2017

 **Manpower:**
16 workers involved in the project

 **Client:**
Steelwind Nordenham


 **Main Contractor:**
Aarsleff BIZ Sp. z o.o







Nissum Bredning offshore wind farm


The production of four foundations for wind turbines on the sea in Thyborøn, northern Denmark.

 **Scope of works:**
Production of foundations

 **Construction time:**
2017

 **Manpower:**
80 workers involved in the project

 **Client:**
Siemens Gamesa Renewable Energy

 **Main Contractor:**
Aarsleff BIZ Sp. z o.o.

Breakwater – Køge Jorddepot


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- Production of blocks for the top surface of a renovated breakwater in Køge Harbour
- Total length of the breakwater: ca. 800 m
- Total amount of elements: ca. 1,000 blocks
- Block dimensions: 1.5 x 1.0 x 0.4 m
- Weight: 3,5 t

 **Scope of works:**
blocks prefabrication

 **Construction time:**
2015 – 2016

 **Manpower:**
37 workers involved in the project

 **Client:**
Steelwind Nordenham

 **Main Contractor:**
Aarsleff BIZ Sp. z o.o





Frederikshavn – Naval Base

The project provided for the renovation and construction of new basins and breakwater for the Danish Naval Base in Frederikshavn. GS Seacon was involved in concrete works related to the construction of: beams, foundations, ramps, cable ducts and media. All the works were carried out at the seashore of the Naval Base.



scope of works:

Installation of reinforcement, carpentry works, concrete pouring, operation of construction equipment



Construction time:

December 2016 –
December 2017



Manpower:

10 steel fixers
7 carpenters



client:

Danish Navy



Main Contractor:

Arkil A/S

Supervision:

1 foreman

Navigation beacons

Weight of the precast beacons:

The tasks included the construction of navigation beacons mounted on sheet piling 10 km from the shore. As the sub-contractor for the project, we were responsible for the pre-fabrication and installation of reinforcement, carpentry works as well as operation of construction equipment. Elements of underground foundations and the top slab were prefabricated in Świnoujście, Poland. Based on the technologies available in the sector of construction services and using the knowledge of experienced specialists, we were able to meet our commitments within the set time-frame.

- Scope of works:** Prefabrication and installation of reinforcement, carpentry and concrete works, operation of construction equipment
- Construction time:** June 2014 – July 2014
- Manpower:** 15 steel fixers, 15 carpenters, 2 crane operators, 25 steel yard employees
- Supervision:** 1 engineer
- Client:** Maritime Office Szczecin
- Main Contractor:** Per Aarsleff A/S Oddział w Polsce







Project Ålesund

Reinforcing elements:
501 tons

The works we carried out in the course of completion of this project consisted in the prefabricating of reinforced concrete slabs used for the construction of embankment in Bergen, Norway. Ålesund is a commercial port town located on the west coast of the country in the Møre og Romsdal region. There are processing plants in the town but Ålesund is also a tourists destination, mainly due to a convenient ferry connection. Completed works included prefabrication and installation of reinforcement as well as operation of construction equipment.

 **Scope of works:**
Prefabrication and installation of reinforcement, carpentry and concrete works.

 **Construction time:**
June 2012 – August 2012

 **Manpower:**
30 men (steel fixers, carpenters, electricians and crane operators)
25 steel yard employees

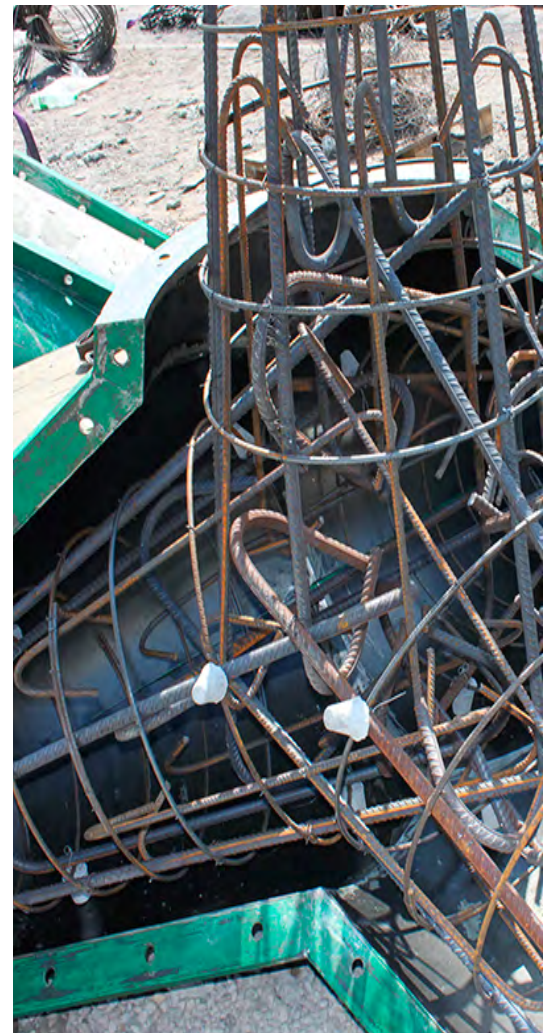
 **Main Contractor:**
Per Aarsleff A/S

Tetrapod blocks

For the purposes of the project we participated in the manufacturing of 2,600 tetrapod blocks. The manufactured elements were arranged in the required manner to form a protective layer of the Western Groin of the breakwater in Świnoujście. Contracted works were carried out by a team of highly qualified specialists, mainly steel fixers, carpenters, crane operators and employees of the steel yard.

Reinforcing steel:
392.6 tons

-  **Scope of works:**
Prefabrication and installation of reinforcement, carpentry and concrete works, operation of construction equipment
-  **Construction time:**
2012
-  **Manpower:**
22 men (steel fixers, carpenters and crane operators)
25 steel yard employees
-  **Client:**
Maritime Office in Szczecin
-  **Main Contractor:**
Per Aarsleff A/S





London Array wind farm

The biggest offshore wind farm in the world. London Array is a globally major project developed in order to meet the demand for electricity of the south-east England. Works related to the manufacturing of reinforced concrete platforms as well as cutting and bending steel elements were carried out in Poland, whereas the actual installation of the platforms on steel foundations took place in Denmark. 4 barges modified with our assistance to enable transportation of all elements in whole were used.

177 concrete platforms



Scope of works:

Installation of reinforcement, carpentry works, prefabrication of reinforcing steel, installation of platforms, preparing and securing cargo for sea transport



Construction time:

2011 – 2012



Manpower:

50 men (steel fixers, carpenters, welder, electrician, crane drivers)
25 steel yard employees



Client:

Masdar & DONG Energy & E.ON Climate & Renewables
UK




Main Contractor:

Per Aarsleff A/S,
Bilfinger Berger GmbH


X-block project


X-block No.:
over 28,000


We participated in the manufacturing of over 28,000 concrete blocks (5 m³, 2.5 m³ and 1 m³), using innovative technical solutions and professional knowledge. X-block elements protect the three-kilometre breakwater against sea waves. By using X-block technology we avoid the problem of corrosion.

 **Scope of works:**
Carpentry and concrete works, operation of construction equipment

 **Construction time:**
2011 – 2012

 **Manpower:**
25 men (carpenters, electricians, welders and crane operators)

 **Client:**
Maritime Office Szczecin

 **Main Contractor:**
Per Aarsleff A/S





Construction of the breakwater in Świnoujście

7,500 tons of prefabricated reinforcing steel

740 joints between piles and anchors with the diameter of 1,220 mm

A major hydrotechnical project. The breakwater was built as a part of the LNG Terminal in Świnoujście. It was the biggest hydrotechnical investment in Poland since the construction of the North Port in Gdańsk. Throughout the completion of the project, we were responsible for the prefabrication of reinforcing steel, connecting piles with modified anchors, anchoring of tie rods of the Western Groin as well as supervision of the quality of welding works. We were responsible for ensuring executive support for international partners who appreciated the high quality of our services and unique experience of our specialists and engineers.



Scope of works:

Carpentry and concrete works, preparation and installation of reinforcing steel, assembly and welding of steel structures



Construction time:

2010 – 2012



Manpower:

40 men (steel fixers, carpenters, welders, fitters)
25 steel yard employees



Client:

Maritime Office in Szczecin



Main Contractor:

CG Falochron Swinoujscie S.C.

Sprogø offshore wind farm

No. of foundations: 7
945 tons of reinforcing steel

Under the contract, acting as the subcontractor, we were responsible for the prefabrication and installation of reinforcing steel for 7 reinforced concrete foundations for wind turbines and the transformer station. The height of the foundations (22 meters) as well as extremely short completion time made this project exceptional. We provide contracted offshore construction services within specified time-frames and we always adapt to individual needs of each customer.

- Scope of works:** Carpentry and concrete works, installation of reinforcing steel, operation of construction equipment and welding works
- Construction time:** 2010
- Manpower:** 44 men (steel fixers, carpenters, crane drivers, electrician) 25 steel yard employees
- Client:** Sund & Baelt Holding A/S
- Main Contractor:** Per Aarsleff A/S, Billinger Berger GmbH





Rødsand 2 offshore wind farm

No. of foundations: 90
10,000 tons of reinforcing steel

Throughout the completion of this project, we provided executive support and prepared 10,000 tons of reinforcing steel used for the construction of reinforced concrete foundations for wind turbines and the transformer station located along the western coast of Denmark. Apart from the construction works, we were responsible for the ballasting and shifting of barges in the dock basin. We also carried out offshore works in the location of the final positioning of the foundations. Rødsand 2 wind farm takes up 34 km² and is one of the largest wind power plants in the world. The following specialists participated in the completion of the project: steel fixers, carpenters, welders, electricians as well as operators of construction equipment and barges.

-  **Scope of works:**
Carpentry and concrete works, installation of reinforcing steel, operation of construction equipment, welding works and operation of barges
-  **Construction time:**
2009 – 2010
-  **Manpower:**
180 men (steel fixers, carpenters, barges operators, welders, crane drivers, electricians)
25 steel yard employees
-  **Client:**
E.ON Climate & Renewables GmbH
-  **Main Contractor:**
Per Aarsleff A/S,
Bilfinger Berger GmbH

Lillgrund offshore wind power plant

No. of foundations: 48

We provided subcontracting support for manufacturing of 48 reinforced concrete foundations. Specialists with vast experience in similar projects, carpenters as well as crane and barge operators, were responsible for the execution of the works. At that time, Lillgrund wind power plant, located 10 kilometres off the southern coast of Sweden, was the third biggest wind farm in the world. Additionally, we carried out offshore works at the location of the positioning of the foundations and handled operation, ballasting and shifting of the barges in the dock basin.

- Scope of works:** Carpentry works, operation of construction equipment, operation of barges, coating and installation of steel structures
- Construction time:** 2006 – 2007
- Manpower:** 31 men (carpenters, crane drivers, barges operators)
- Supervision:** 2 foreman
- Client:** Vattenfall Europe Windkraft GmbH
- Main Contractor:** E.Pihl & Søn A/S – Hochtief Construction AG, RSB Schalungstechnik GmbH & CO





Nysted offshore wind farm

No. of foundations: 72

Nysted offshore wind farm – Rødsand 1. Acting as a subcontractor for the project of the offshore wind farm – under the contracted works, we participated in the construction of foundations for wind turbines for Nysted power plant. The plant is commonly referred to as Rødsand 1, it is located 10 kilometres off the Danish coast. For the purpose of the project, we made use of the unique experience of our employees and supported the completion of the works with newest technical solutions.

-  **Scope of works:**
Operation of construction equipment, operation of floating equipment
-  **Construction time:**
2002 – 2003
-  **Manpower:**
26 men (barges operators, crane operators)
-  **Client:**
Dong Energy
-  **Main Contractor:**
Per Aarsleff A/S
- Supervision:**
1 foreman

Horns Rev 1 off-shore wind farm

No. of foundations: 80

A breakthrough international investment. It was the first wind farm erected on the North Sea. Horns Rev 1 is located almost 14 kilometres off the Danish coast line and consists of 80 wind turbines situated at the depth of 6 to 14 meters. The turbines generate 160 MW of electricity. This satisfies the demand of 150,000 Danish households, i.e. almost 2% of the total annual electricity consumption in whole Denmark. Completion of Horns Rev 1 project involved managing staffing of functional positions on jack up oil platform in line with the requirements of the International Maritime Organization for the biggest offshore wind farm on the North Sea.



Scope of works:

Managing crew on jack up oil platform



Construction time:

2001 – 2002



Manpower:

Supervision:

1 foreman



Client:

DONG Energy & Vattenfall
Europe Windkraft GmbH



Main Contractor:

MT Hojgaard





Värtahamnen harbor, Stockholm

Construction site area: 85,000 m²

Embankment: 1,200 m²

The project encompassed modernisation and expansion of the largest port in Stockholm as part of the development of urban areas of Stockholm Royal Seaport. Värtahamnen is the main port in Stockholm and is used predominantly by passenger ferries and commercial cargo ships. Completed works included mainly prefabrication and installation of reinforcing elements, carpentry works and operation of construction equipment. Prefabricated elements were manufactured in Świnoujście, Poland. We were responsible, among others, for the prefabrication of the following elements: concrete slabs (approx. 1,200 pieces, 75 tons each), retaining walls (approx. 190 pieces, 18 tons each), anchor plates (approx. 190 pieces, 2.5 tons each) as well as pile enclosures (approx. 120 pieces, 8.4 tons each).



Scope of works:

Prefabrication and installation of reinforcing elements, carpentry works and operation of construction equipment



Construction time:

2013 – 2014



Manpower:

80 steel fixers
20 carpenters
2 crane drivers,
5 machinery drivers
25 steel yard employees



Client:

The Stockholm Royal Seaport



Main Contractor:

Per Aarsleff A/S Oddział w Polsce

Supervision:

1 engineer

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