

Welcome to a presentation of



One Stop Solution for High Quality Engineering and Fabrication.





OUR VISION	OUR MISSION	OUR CORE VALUES
One Stop Solution for High Quality Engineering and Fabrication	To deliver cost-effective engineering and fabrication with Norwegian and international quality standards	Trust Innovation Excellence Loyalty



Our Business Areas



Engineering

Techvalue Norway has been working with engineering since the founding in 2010.

Both through own contracts and through the subsidiary company Focus Engineering this has been a main activity and will be a main activity for **Techvalue Norway** in the coming years.

Fabrication

Techvalue Norway has been working with fabrication in Vietnam since the founding of Focus Construction 2015.

10 years of experience in Vietnam has brought essential experience about delivery of high quality products following Norwegian and international standards.

Sustainable Product Development



Product Development is a continuously ongoing activity in

Techvalue Norway.

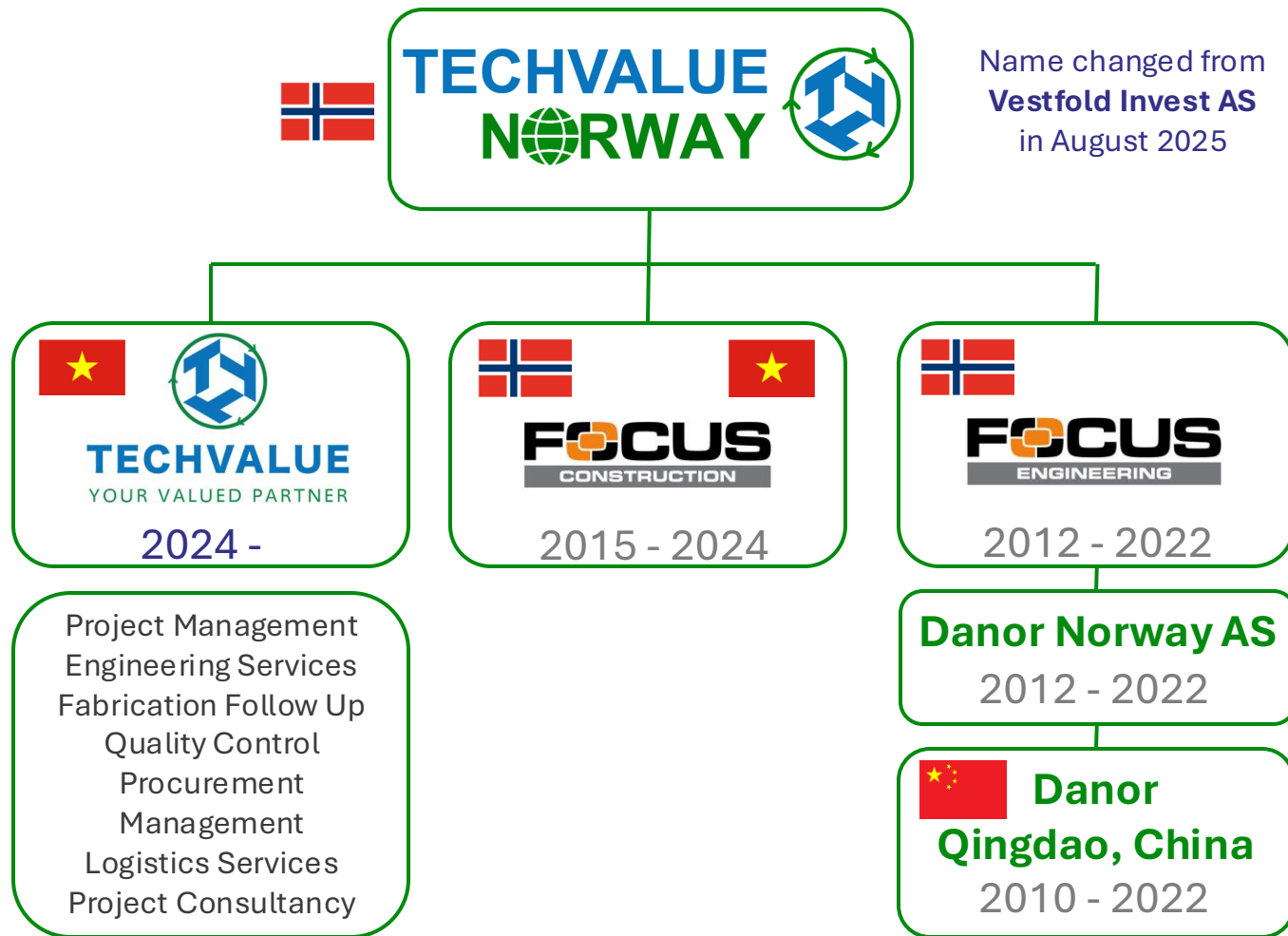
Main focus points:

- * Green technology
- * Smart technology
- * Developing countries
- * Helping people in poverty

*** United Nations Sustainability Goals**

Techvalue Norway Ownership History

Engineering and Fabrication



Code of Conduct



Techvalue Norway and the subsidiaries are strictly following the Code of Conduct within our companies

Our Code of Conduct is covering very important areas as:

- Health and Safety
- Harassment and Violence
- Discrimination
- Human Rights and child labor
- Bribery
- Ethical Relationships
- Money Laundering
- Conflict of Interest, honesty and trust
- Privacy
- Work/Life Balance
- Corporate Social Responsibility
- Copyright and Intellectual Property (IP)



Achieving United Nation's Sustainability Goals



We leverage our engineering and fabrication competence for sustainable product development to achieve UN Sustainability Goals



Product development to help people in poverty



Aquaculture technology



High quality healthy food through modern aquaculture technology



Education and training of co-workers and suppliers



Renewable energy infrastructure technology



Product development continuously ongoing



High focus on material and cost savings in design phase



Involvement in green technology and sustainability

History Timeline since the founding in 2010

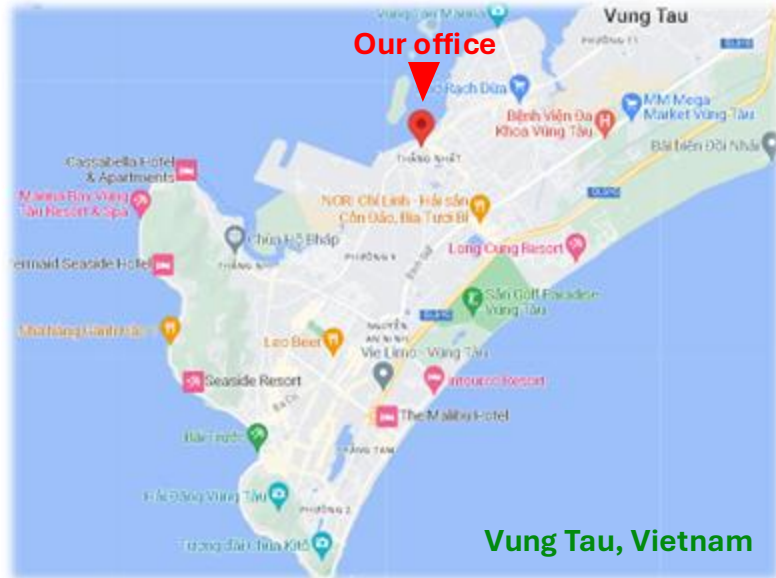


Engineering & Fabrication

Year	Activity
2025	Changed name from Vestfold Invest AS to Techvalue Norway AS Ongoing acquisition of engineering company in Vietnam Ongoing acquisition of fabrication company in Vietnam
2024	Established Techvalue LLC in Vietnam Sold Focus Construction AS
2022	Focus Engineering AS (FOE) taken over by Techouse, Stavanger Acquisition shares in Focus Construction AS
2015	Established Focus Construction (FOC) in Vietnam
2012	Established Focus Engineering (FOE) in Norway
2010	Established in engineering office in Qingdao, China



Techvalue – Our subsidiary company in Vung Tau, Vietnam



Office Address Norway:

Techvalue Norway AS

Herstadåsen 7
3140 Nøtterøy
Norway

Contact: hnn@techvalue.no

Office Address Vietnam:

Techvalue Norway LLC

02 Nguyen Huu Canh
street, Rach Dua ward,
Ho Chi Minh
Viet Nam.

Contact: hnn@techvalue.no



Quality Assurance and Quality Control



Quality Assurance

Techvalue Norway and our subsidiary company Techvalue (Vietnam) has a complete **QA System** according to **ISO 9001:2015**

A complete set of Check Lists within all engineering disciplines has been established

Mitigate



Quality Control

Techvalue Norway has own developed systems for following up fabrication in addition to the fabricators own Quality Control Systems

Techvalue Norway establish clear procedures and Check Lists whenever required in order to close all gaps of the Quality Control



Techvalue Norway's Solutions



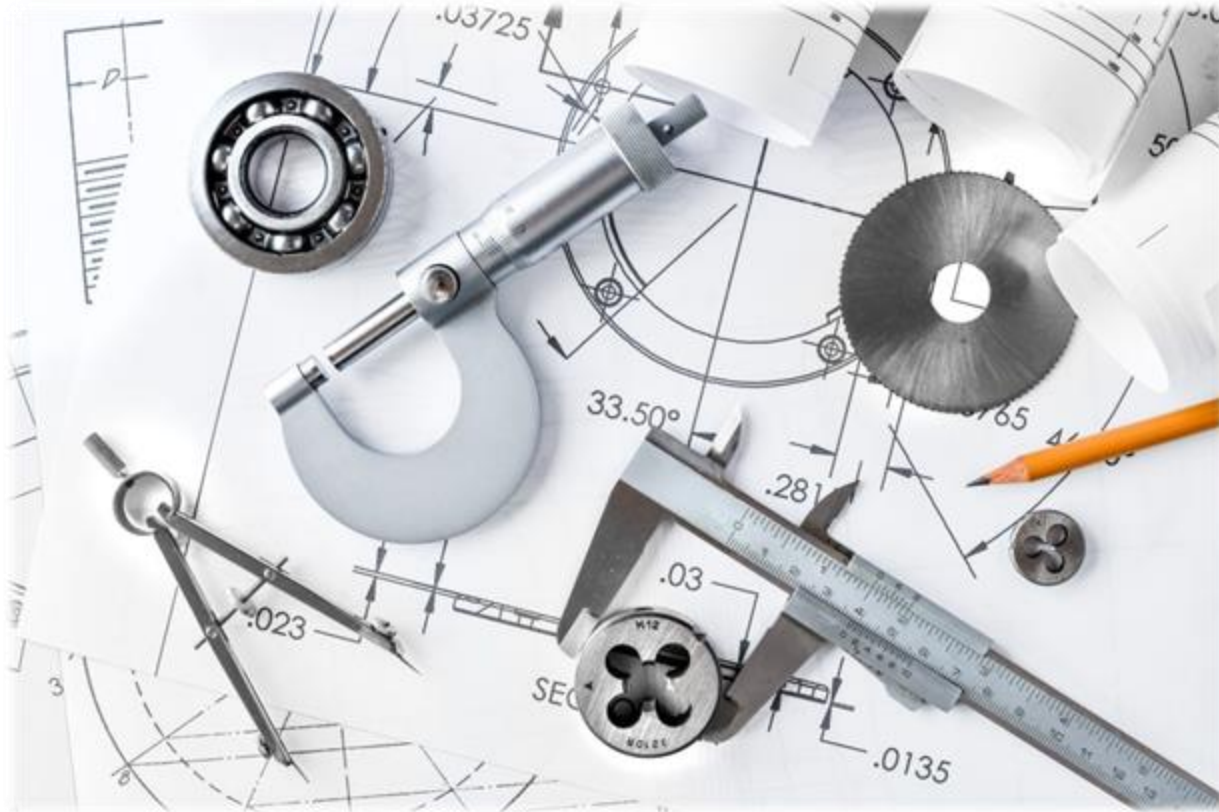
Engineering	Fabrication (Vietnam)	Quality Management	Procurement & Logistics	Project Consultancy
All relevant disciplines covered	Delivering wide range of fabrication from machined products to Oil & Gas Modules.	Quality Audits Quality Inspections & Fabrication Follow Up.	International & domestic Procurement. (Material, equipment)	Comprehensive Technical Service – representing foreign companies in Vietnam.
Wide experience from landbased and oil & gas industry.	Own developed systems for following up all fabrication.	Quality Documentation	Import and Export Services	Sales & Marketing – expand your business in Vietnam
				Value added services for clients who need operational solutions in Vietnam without own local representative.
Norwegian and Vietnamese senior engineers and engineers	Trusted partner network with highly competent fabricators.	Wide experience from engineering and fabrication in Asia	Close gaps within language, cultural, commercial and technical aspects between Vietnam and overseas	

Cost optimization

Manage threats, mitigate risks

Remove constraints

Engineering Services



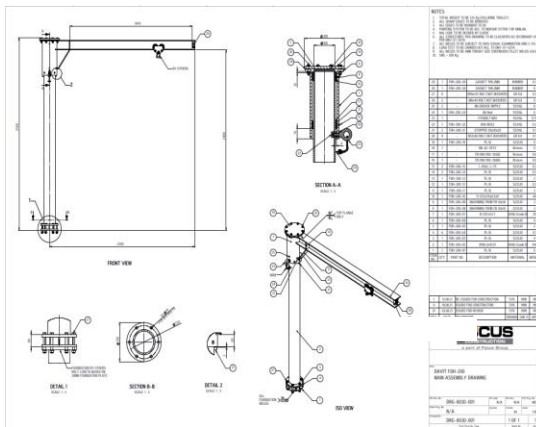
**Our Engineering Services will in general be performed
at low cost in our offices in Vung Tau, Vietnam**



Our Engineering & Fabrication Services



Engineering



- Detail Design/Engineering
- 3D Modelling
- Strength Analyses
- Drawing Production
- English language spoken by all local engineers

Fabrication



- Own designed products
- Client designed products
- Steel Structures
- Piping/Pipe spools
- Mechanical equipment
- High precision machining
- Carbon Steel
- Stainless Steel

Fabrication Follow Up



- Quality Control and Surveys
- Highly skilled inspectors
- Covering all main disciplines
- English language spoken by all local inspectors



Disciplines Covered



Engineering

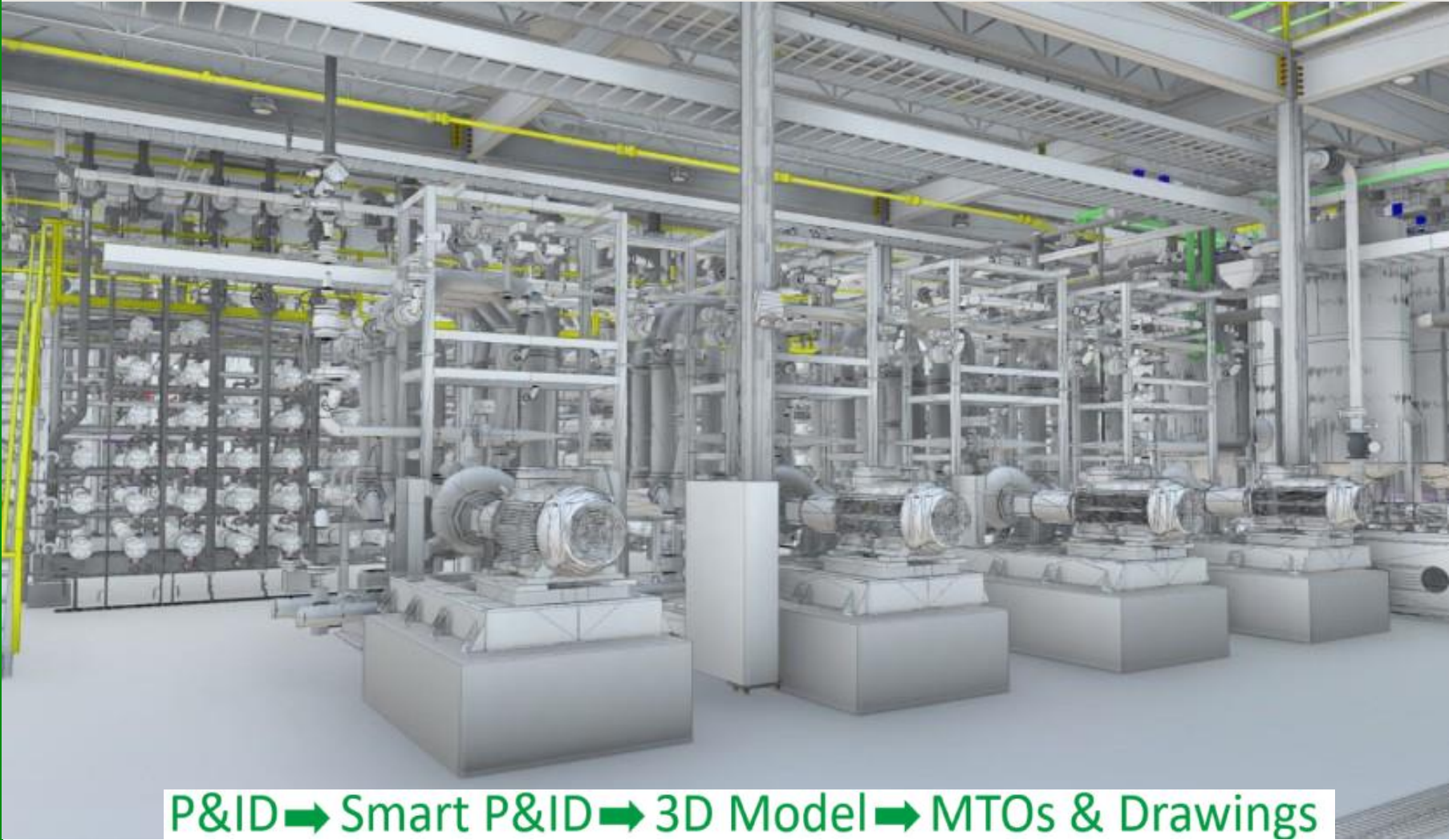
Engineering Management
Process
Layout
Piping
Structural
Architectural
Mechanical
Pipe Supports
Fire Fighting/Safety
Electrical
Instrumentation
Automation
Civil
Planning
Document Control

Fabrication Follow Up

Quality Control Management
Construction Management
HSE Inspector
Welding Engineer/Inspector
Piping Inspector
Structural Inspector
Surface Treatment/Coating Inspector
Architectural Inspector
Mechanical Inspector
Mechanical Completion
NDT Inspector
Electrical & Instrument Inspector
Planning
Final Documentation
Document Control

Software Profile

Autodesk Plant 3D

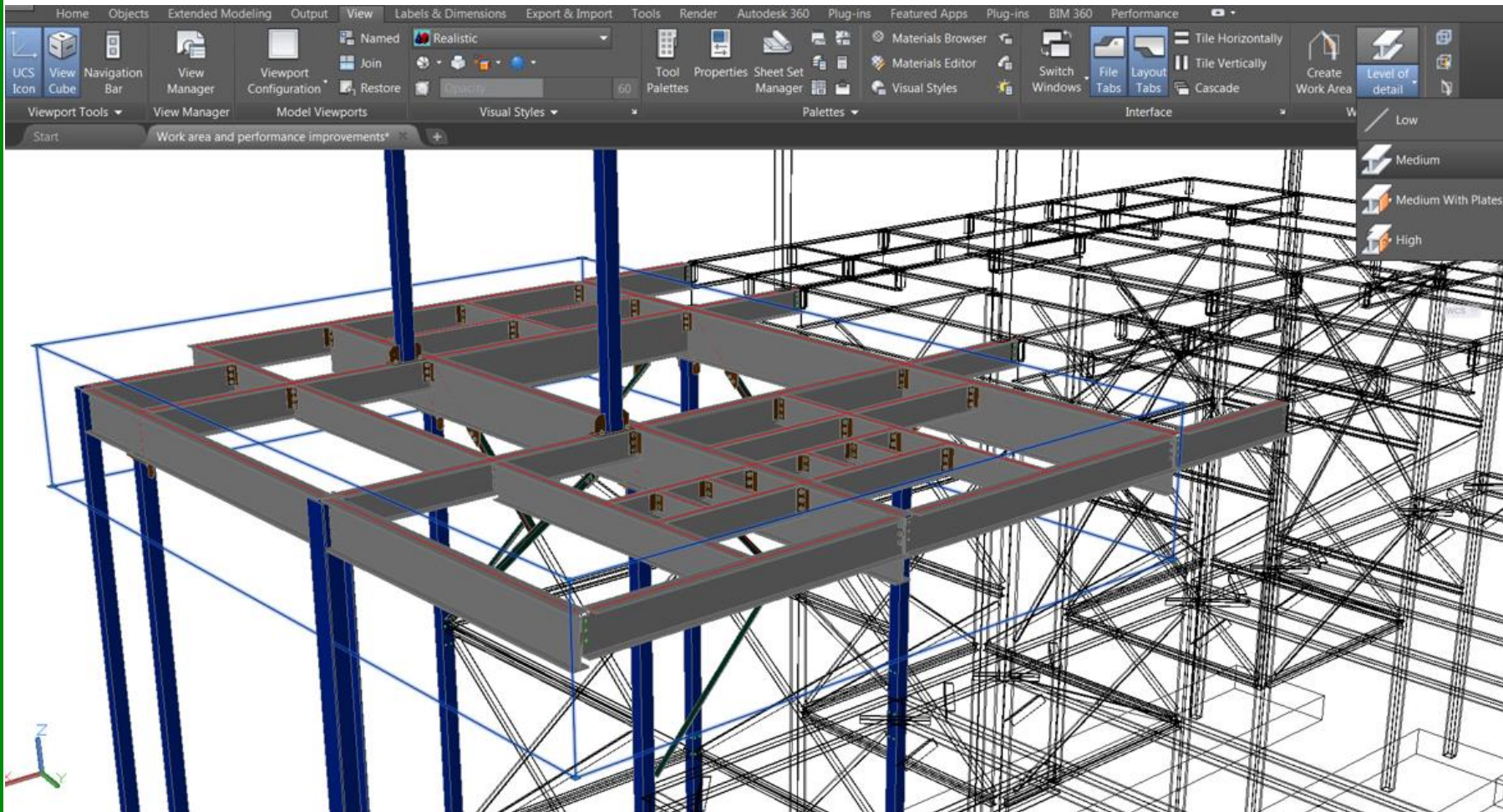


P&ID ➡ Smart P&ID ➡ 3D Model ➡ MTOs & Drawings



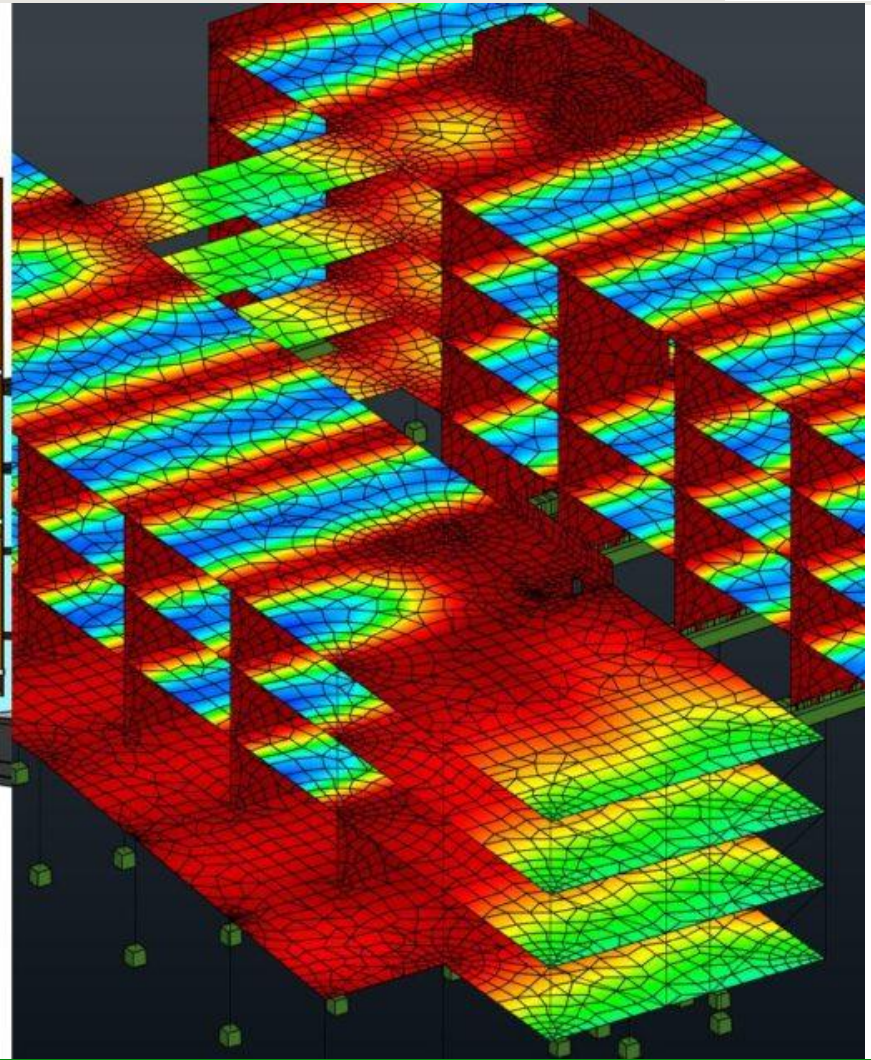
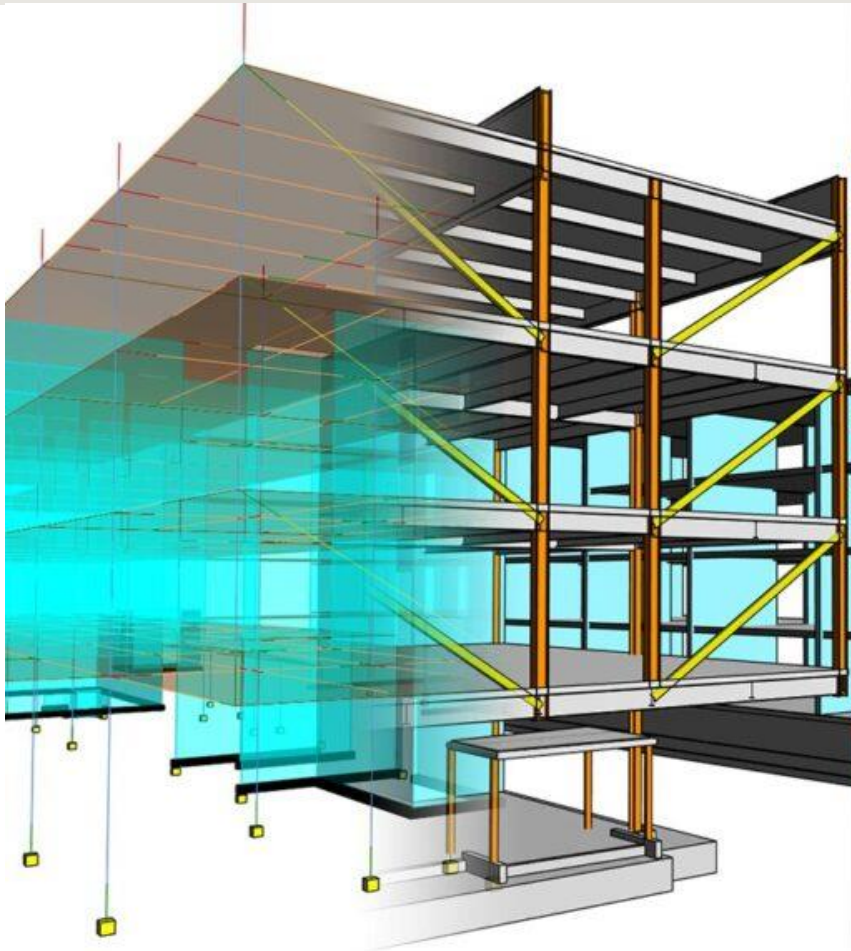
Software Profile

Autodesk Advance Steel



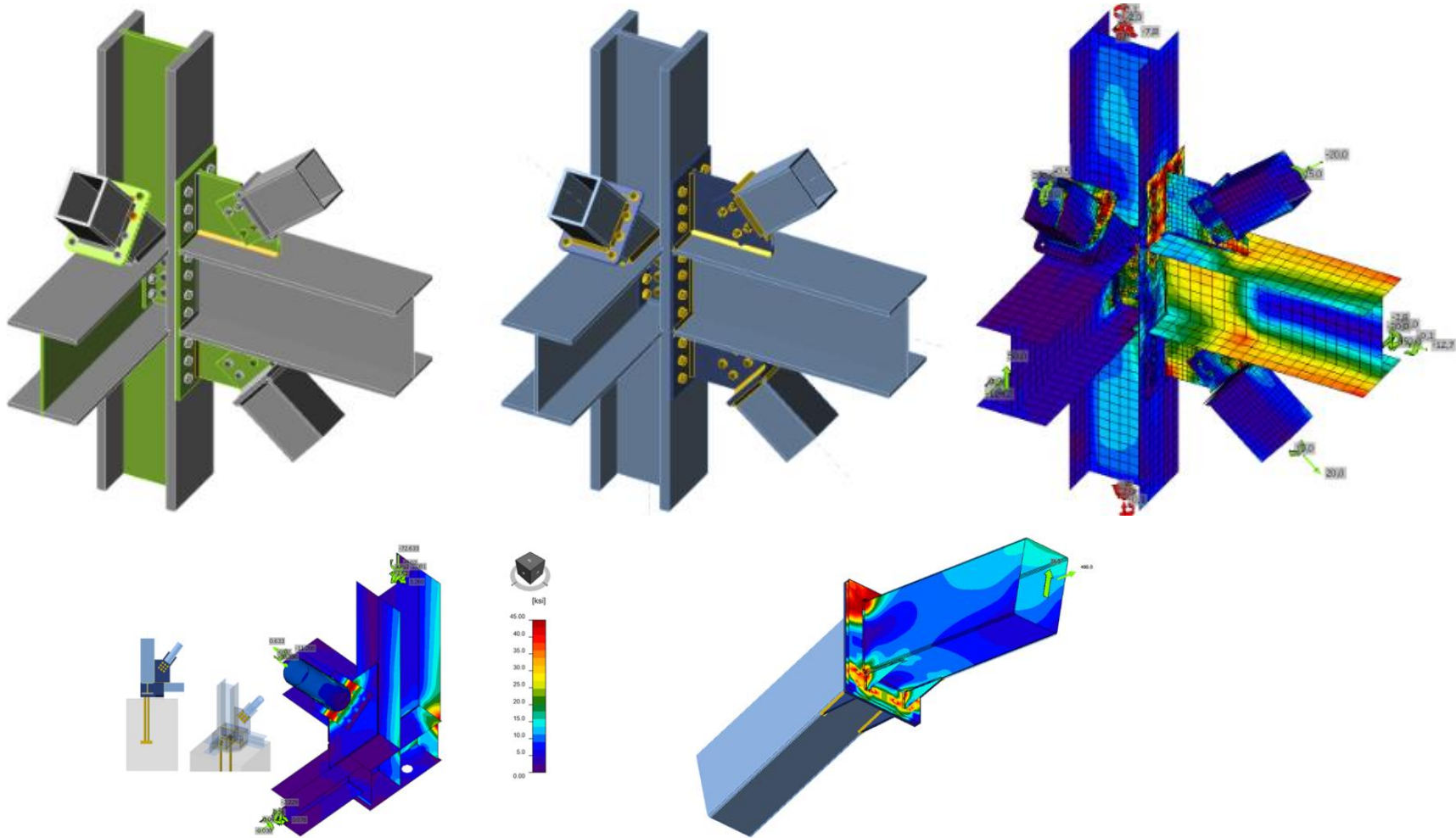
Software Profile

Robot Structural Analysis



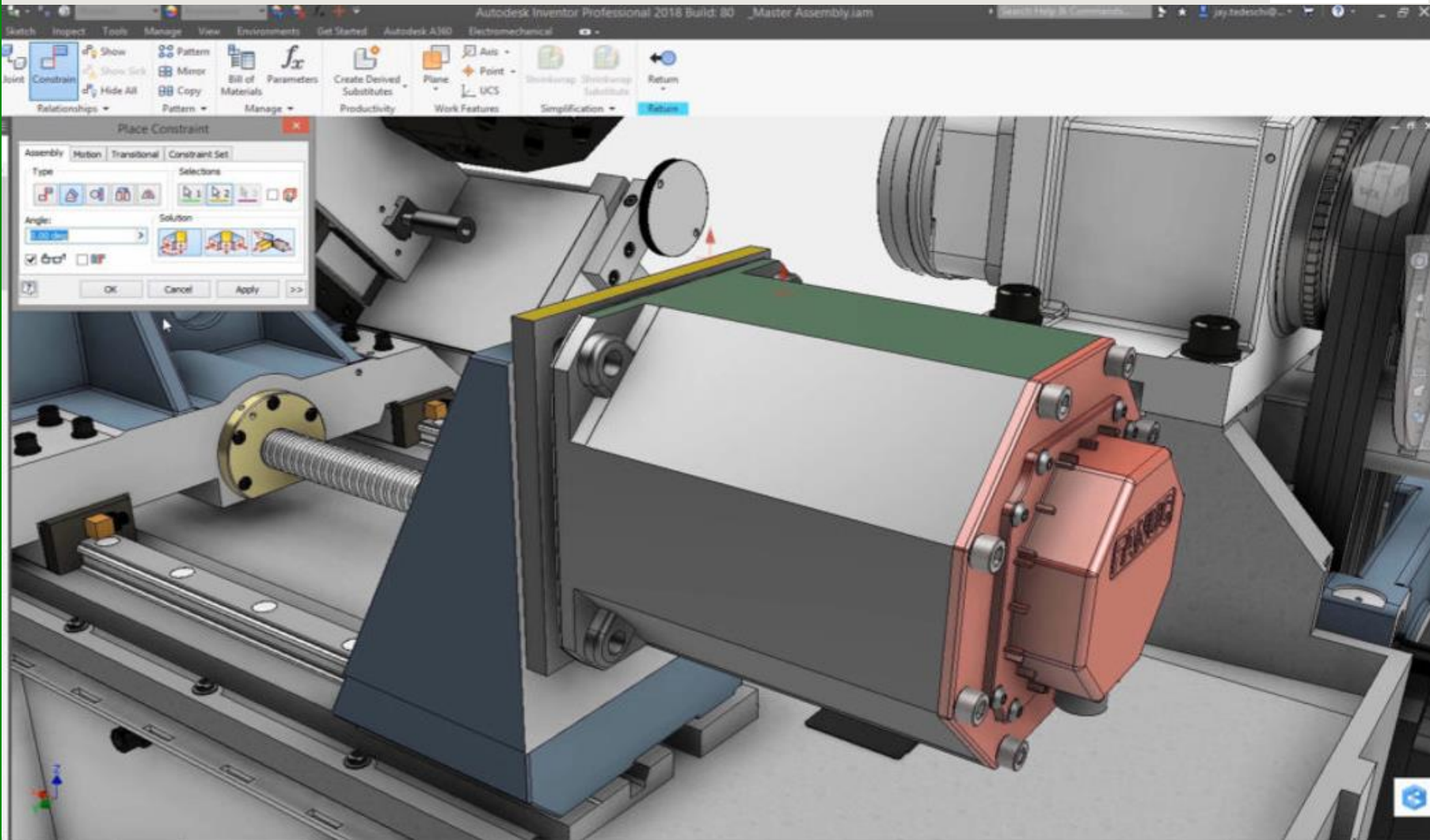
Software Profile

IDEA Statica



Software Profile

Inventor



Engineering projects will be run under Techvalue Norway Management and the QA system created for smaller and larger projects



Engineering Check Lists

TV-CL-001_Check List Template	TV-CL-015_Check List for Pipe Support Calculation
TV-CL-002_Check List Isometric Drawings	TV-CL-016_Check List Architecture Drawings
TV-CL-003_Check List Pipe Stress	TV-CL-017_Check List Architectural Design Report & Calculations
TV-CL-004_Check List Structural Drawings	TV-CL-018_Check List for Piping Modelling
TV-CL-005_Check List Mechanical	TV-CL-019_Check List for Equipment Modelling
TV-CL-006_Check List Structural Analysis & Design Report	TV-CL-020_Check List for Structural Modelling
TV-CL-007_Check List Safety	TV-CL-021_Check List for Structural Assembly Drawings
TV-CL-008_Check List Electrical	TV-CL-022_Check List for Structural Part Drawings
TV-CL-009_Check List Instruments	TV-CL-023_Check List for Structural Nesting Drawings
TV-CL-010_Check List for Pipe Support Modelling	TV-CL-024_Check List for Structural Welding Map Drawings
TV-CL-011_Check List for Pipe Support Drawings	TV-CL-025_Check List for Fabrication Follow Up
TV-CL-012_Check List Structural Computer Analysis	TV-CL-026_Check List for Structural MTO
TV-CL-013_Check List for Weight Control	TV-CL-027_Check List for General Arrangement



Engineering & Fabrication Projects

Setup for smaller/medium size projects



International

Vietnam



CLIENT

TECHVALUE
NORWAY




TECHVALUE
YOUR VALUED PARTNER
Our Vietnam Branch

Together with our
local cooperation
partners

Project Management
Engineering Management
Process
Layout
Safety
Piping
Structural
Mechanical
Architectural
Pipe Supports
Electrical
Instrumentation
Automation
Planning
Document Control
Quality Control
Fabrication Follow Up

TECHVALUE
NORWAY



YOUR VALUED PARTNER IN NORWAY AND VIETNAM

Herstadåsen 7, 3140 Nøtterøy, Norway



Some Engineering Project References



Safe Caledonia Accommodation Modules

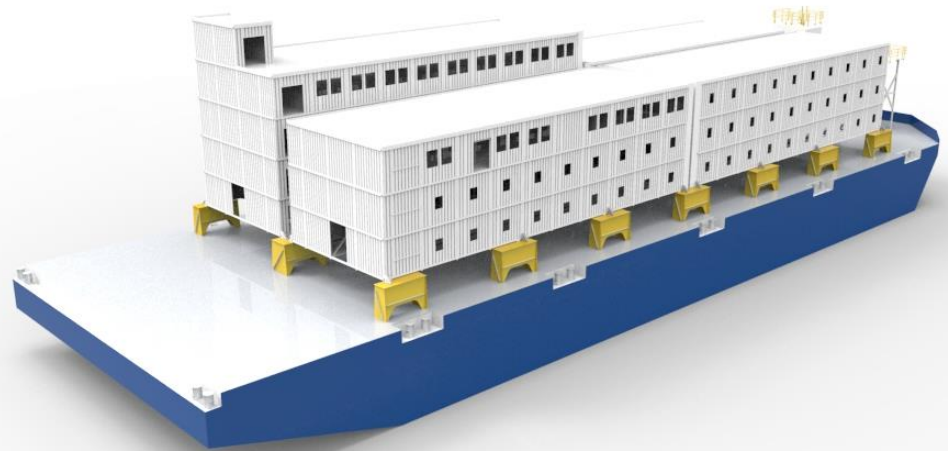
Year: 2012

Detail Engineering Phase:

Senior Structural Engineer
Design and calculation of
Grillage and Seafastenings

Sea Transportation Phase:

Load Out Management at
site in Estonia



Some Engineering Project References



Lamson E-House

Year: 2012 - 2013

Detail Engineering Phase:
Project Manager / Senior
Structural Engineer
Coordination towards
Kongsberg Maritime
Structural detail engineering
Mechanical handling
Weight Control

Fabrication Phase
(Batam/Indonesia):
Assisting Site Manager

Lifting surveys at site in
Singapore



KONGSBERG

Some Engineering Project References



Dana Western Isles FPSO

Year: 2011 – 2017

Structural engineering site representative at Cosco (Qidong) Offshore Co., LTD in China during the detail engineering and construction phase from 2013 to 2017.

The scope of work was checking and guiding the Chinese structural engineers through the entire project until delivery including structural redesign of all Topside Modules.

High focus on weight control resulting in significant weight savings.



Some Engineering Project References

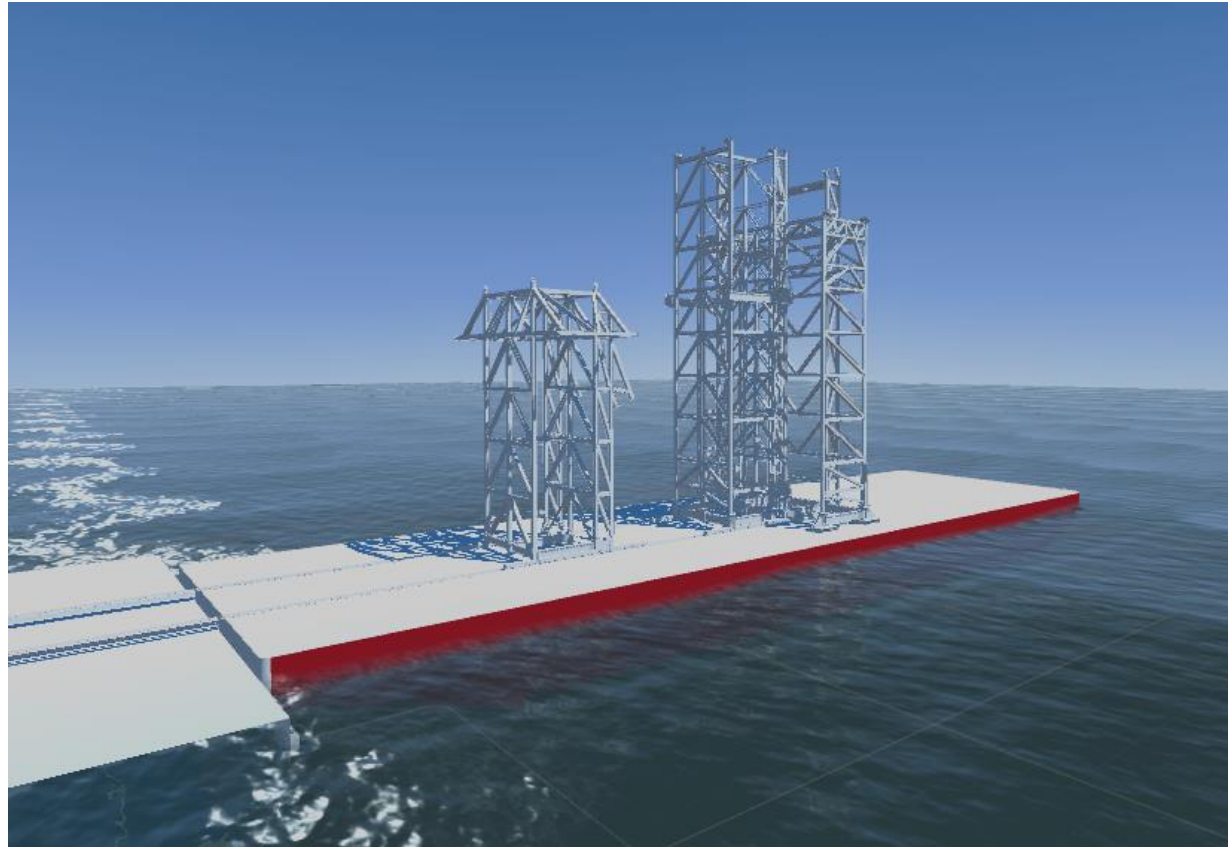


Sea Transport of Structures

Year: 2014

Senior Structural Engineer

Design and calculation of Grillage and Seafastings of very tall structures from Shipyard in China



Some Engineering Project References



BWO Catcher E-House

Year: 2014 - 2015

Senior Structural Engineer

Coordination towards
Kongsberg Maritime

Structural detail engineering
Mechanical handling
Weight Control

Lifting surveys and site
inspections at site in
Singapore



KONGSBERG

Some Engineering Project References



Ghana OCTP FPSO – E-House

Year: 2015 – 2016

Senior Structural Engineer

Coordination towards
Kongsberg Maritime
Assisting towards end client
and fabricator.

Structural detail engineering
Mechanical handling
Weight Control

Lifting surveys at site in
Singapore



KONGSBERG



Some Engineering Project References



Cluster 7 E-House

Year: 2016

Senior Structural Engineer

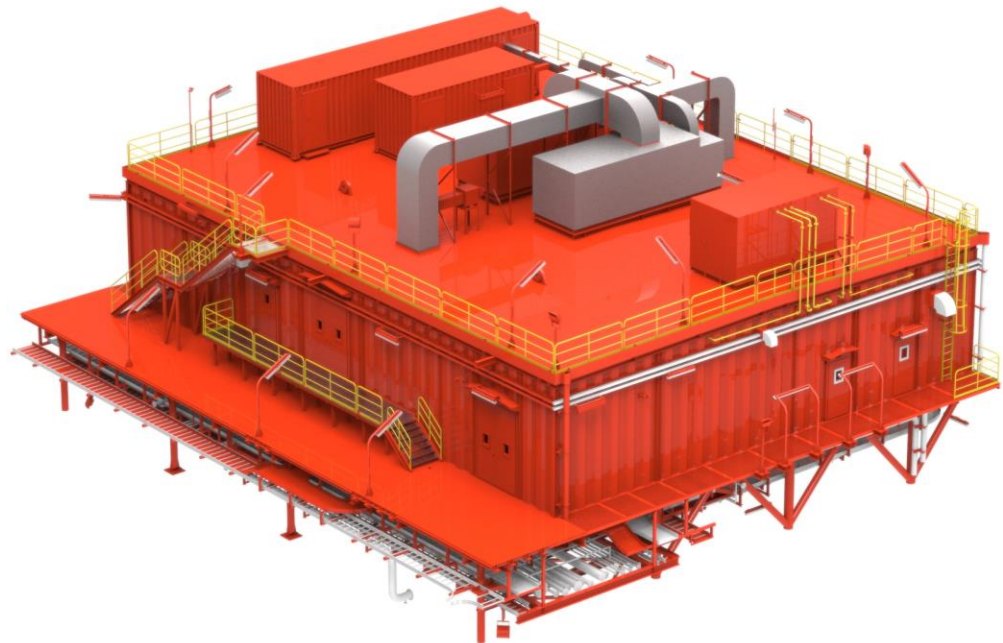
Coordination towards
Kongsberg Maritime
Assisting towards end
client and fabricator

Structural detail
engineering
Mechanical handling
Weight Control

Lifting surveys at site in
Singapore



KONGSBERG



Some Engineering Project References



Sulphate Removing Unit (SRU)

Year: 2017 - 2018

Senior Pipe Support Engineer

Design and calculation of Pipe Supports



Some Engineering Project References



Golar Regas Conversion

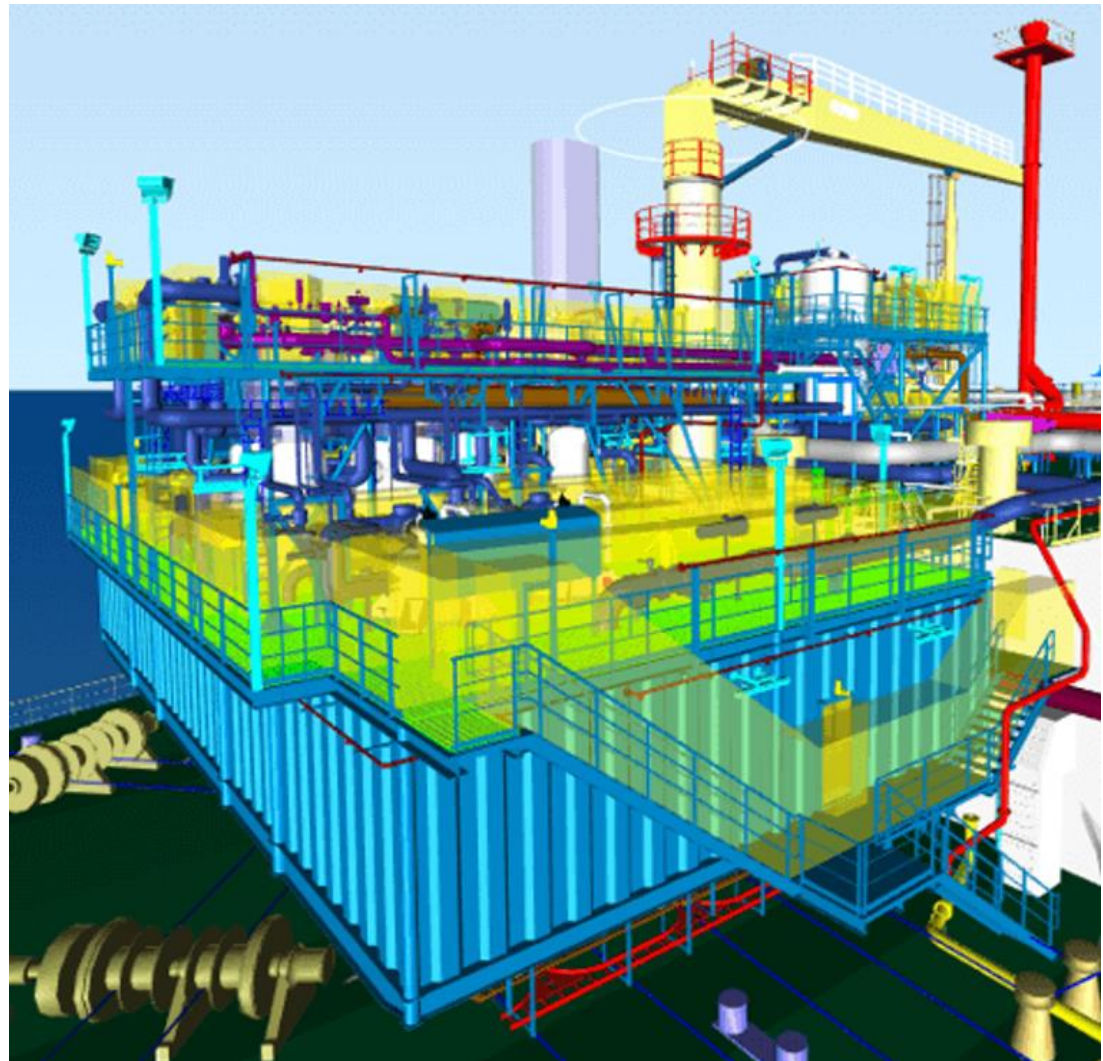
Year: 2017 - 2018

Senior Structural Engineer

Discipline Lead Pipe
Supports

Discipline Lead Mechanical
Handling

Discipline Lead Weight
Control



Some Engineering Project References



LNG Croatia Regas Conversion

Year: 2019

Senior Structural Engineer
Discipline Lead Pipe Supports
Discipline Lead Mechanical Handling
Discipline Lead Weight Control



Some Engineering Project References

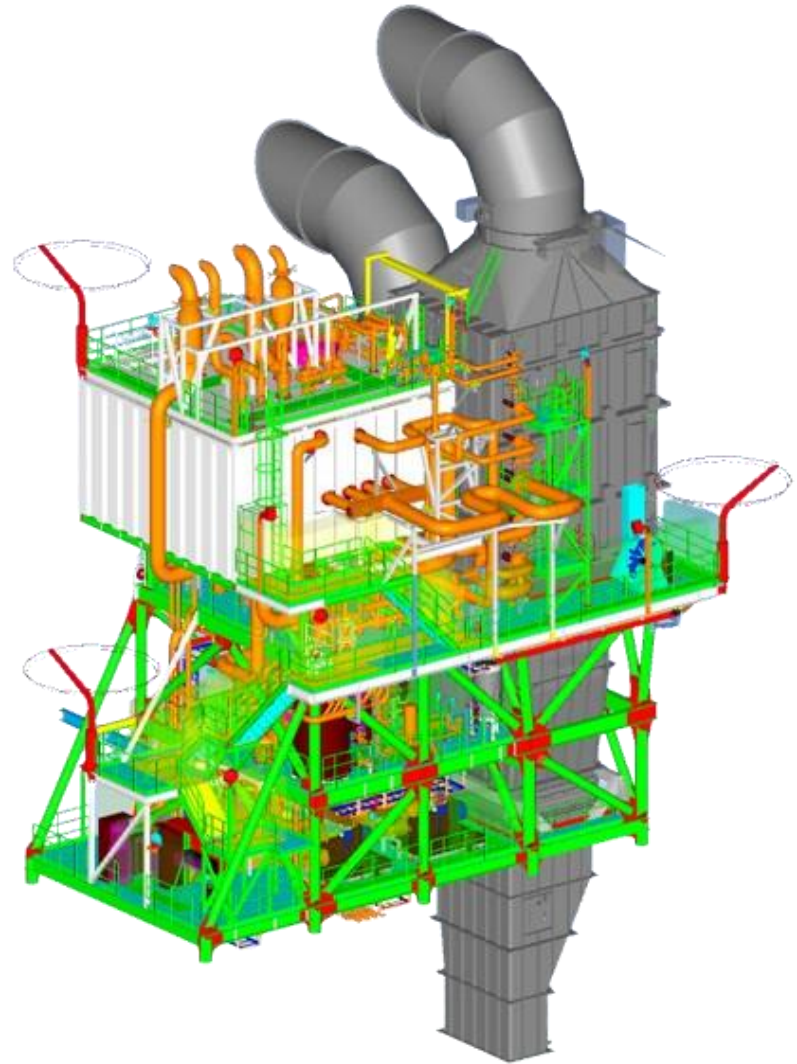


Golar Gimi FLNG HRSG Modules

Year: 2019 - 2020

Senior Structural Engineer
Discipline Lead Pipe Supports
Discipline Lead Mechanical Handling
Discipline Lead Weight Control

4 off modules



Some Engineering Project References



FPSO Blue Eagle EPC Process Topside

Year: 2019 - 2020

Senior Structural Engineer

Discipline Lead Pipe
Supports

Discipline Lead Mechanical
Handling

Discipline Lead Weight
Control



Some Engineering Project References



LNG Tatiana Regas Conversion

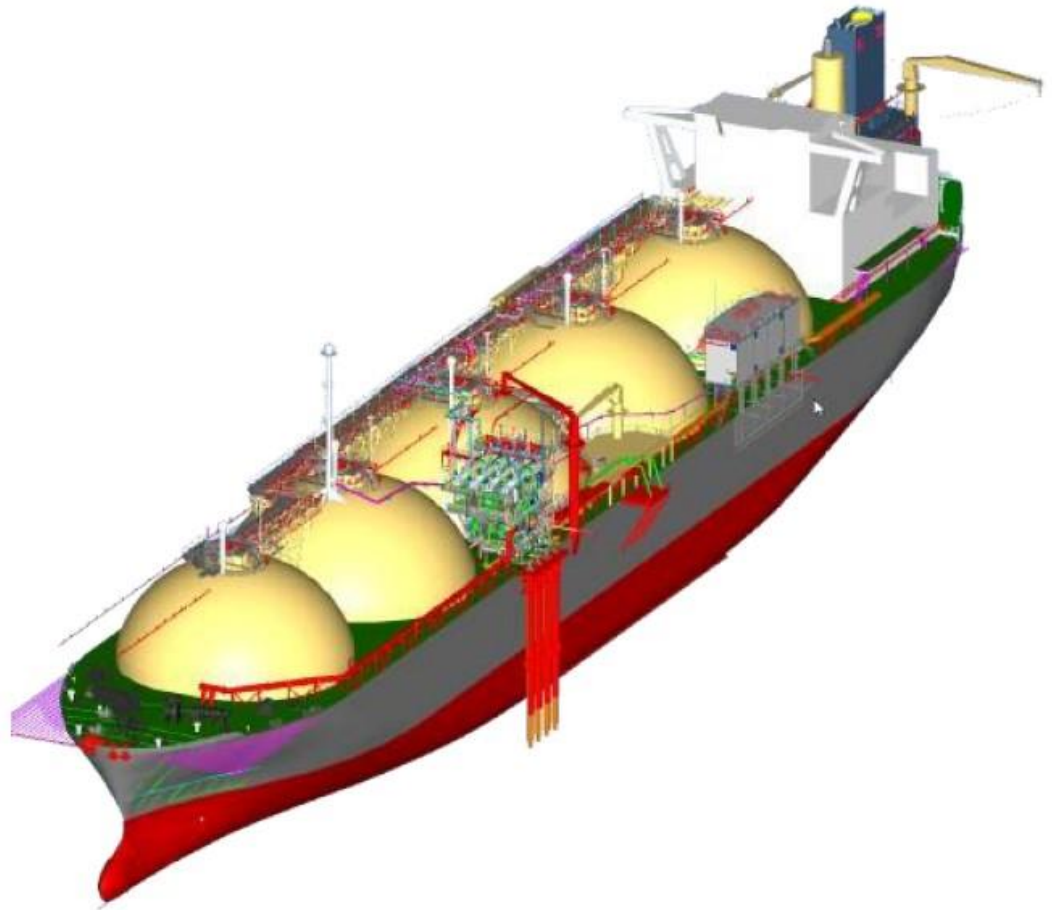
Year: 2019 - 2020

Senior Structural Engineer

Discipline Lead Pipe Supports

Discipline Lead Mechanical Handling

Discipline Lead Weight Control



Some Engineering Project References



Anna Nery FPSO Gas Compression Modules

Year: 2020 – 2021

Senior Structural Engineer
Discipline Lead Pipe Supports
Discipline Lead Mechanical
Handling
Discipline Lead Weight Control

Design of Lifting Davits
Fabrication Lead for Lifting Davits
Responsible for certification and
documentation of davits

Following up engineering work at
engineering office in China

Admin leadership of fabrication
follow up team



Some Engineering Project References



Anna Nery FPSO Utility Modules

Year: 2020 – 2021

Senior Structural Engineer
Discipline Lead Pipe Supports
Discipline Lead Mechanical
Handling
Discipline Lead Weight Control

Design of Lifting Davits
Fabrication Lead for Lifting Davits
Responsible for certification and
documentation of davits

Following up engineering work at
engineering office in China

Admin leadership of fabrication
follow up team



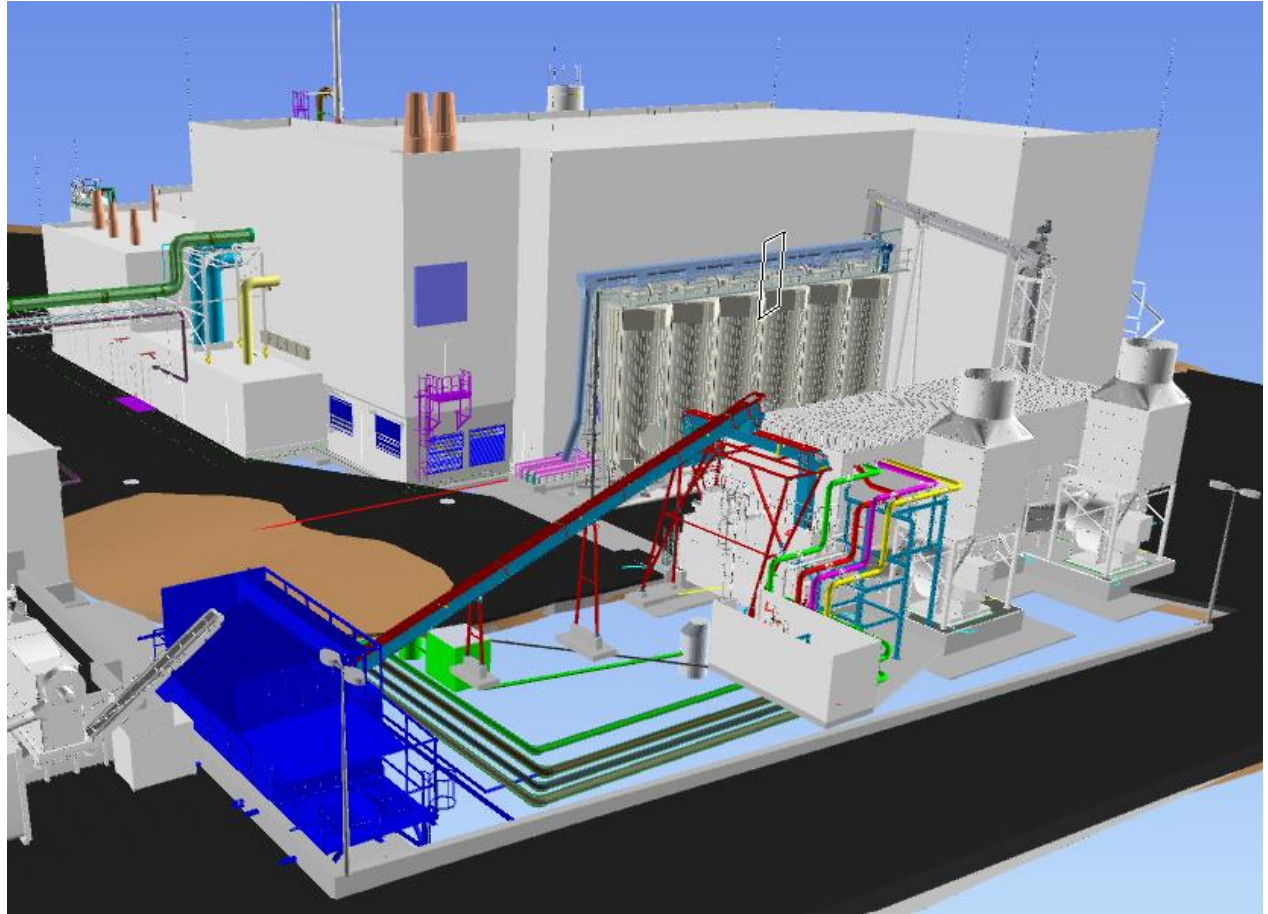
Some Engineering Project References



Follum Biocarbon Pipe Supports

Year: 2025

Design
Strength Calculations
3D Modeling
Drawing Extraction
Fabrication Input



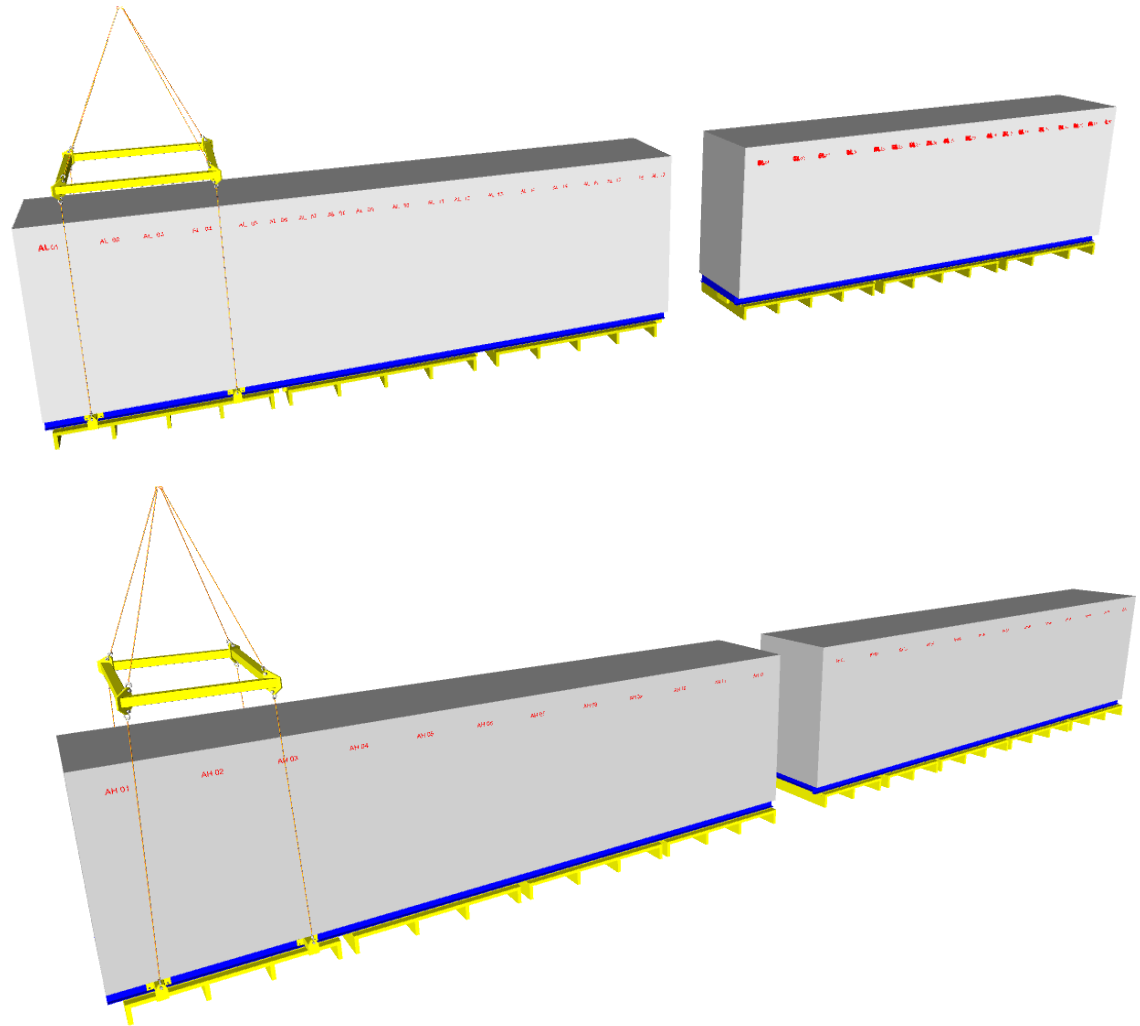
Some Engineering Project References



Golar MKII FLNG SWBD Support Structures

Year: 2025

Structural Design
Strength Calculations
3D Modeling
Drawing Extraction
Design of Lifting Equipment
Transportation Pallets



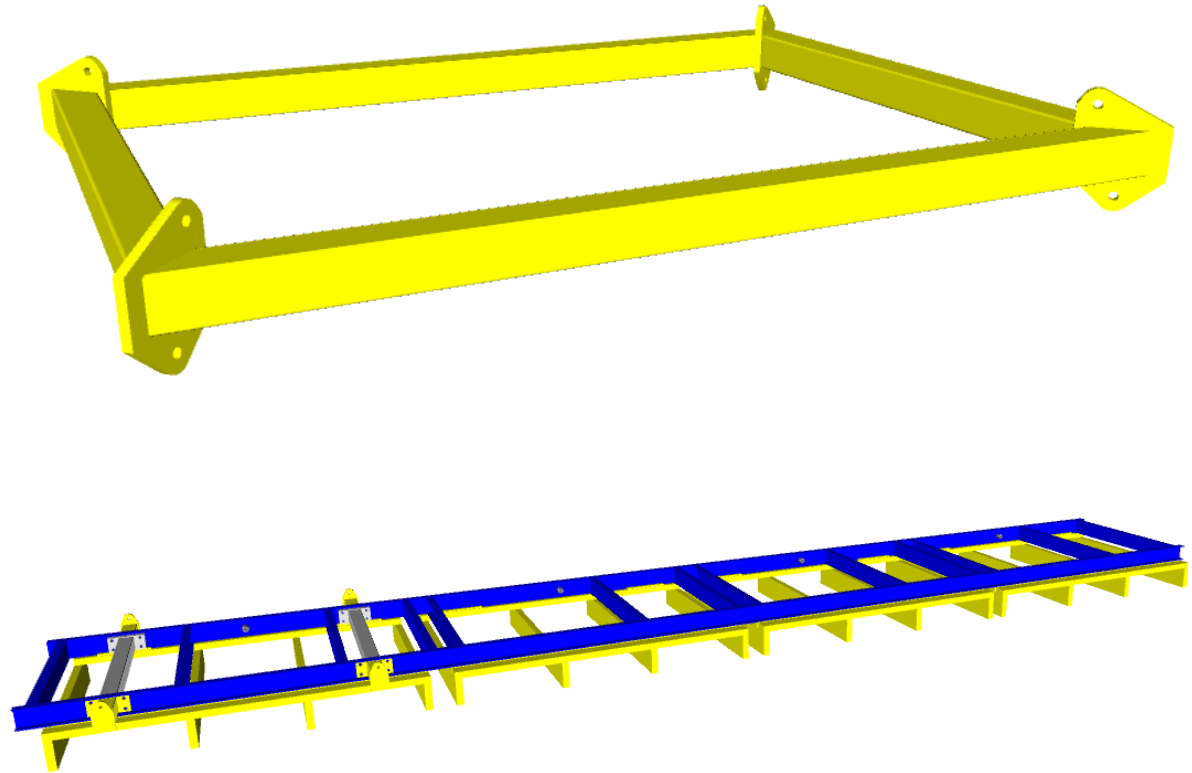
Some Fabrication Project References



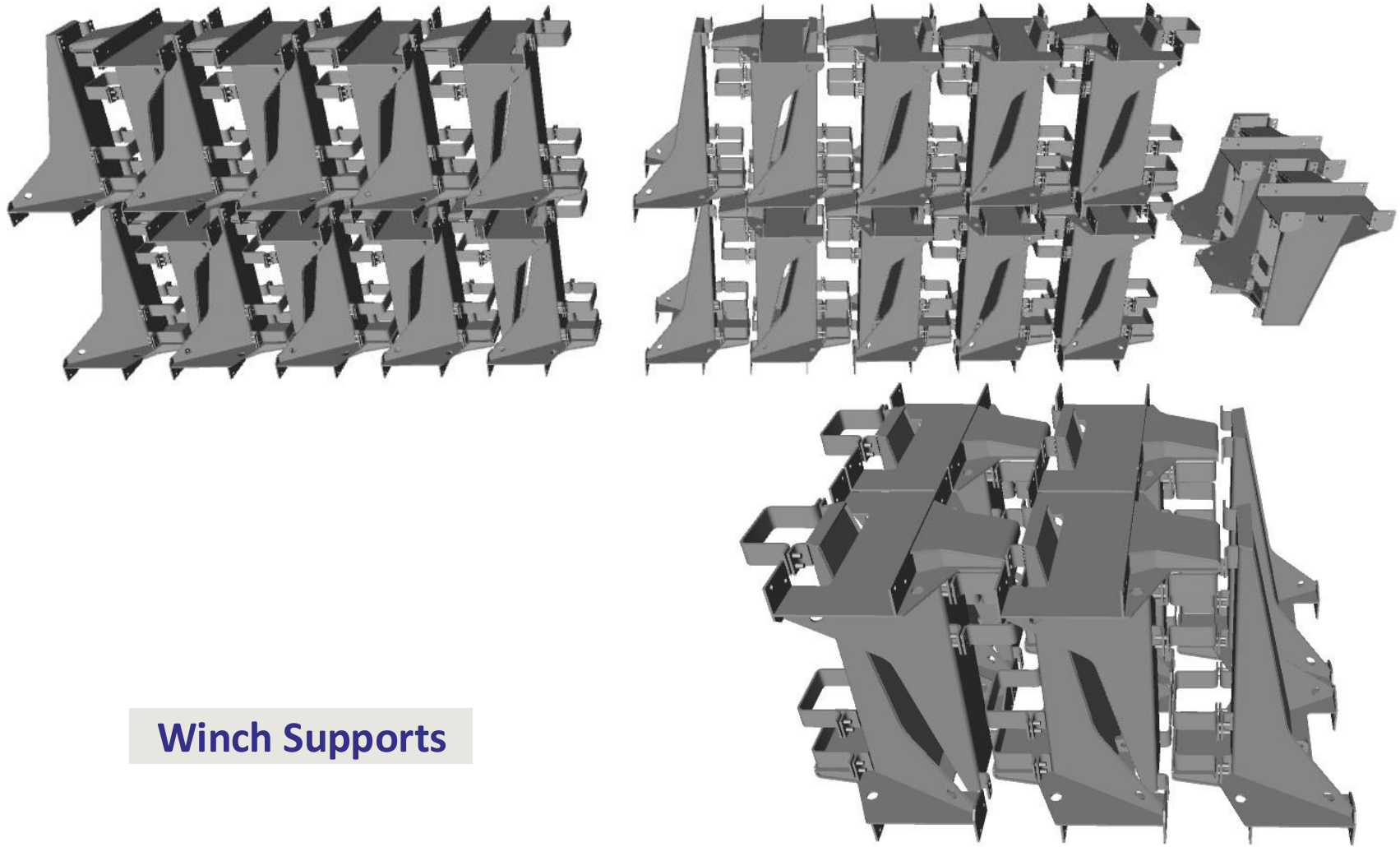
Golar MKII FLNG SWBD Support Structures

Year: 2025

Structural Base Frames
Lifting Equipment
Transportation Pallets



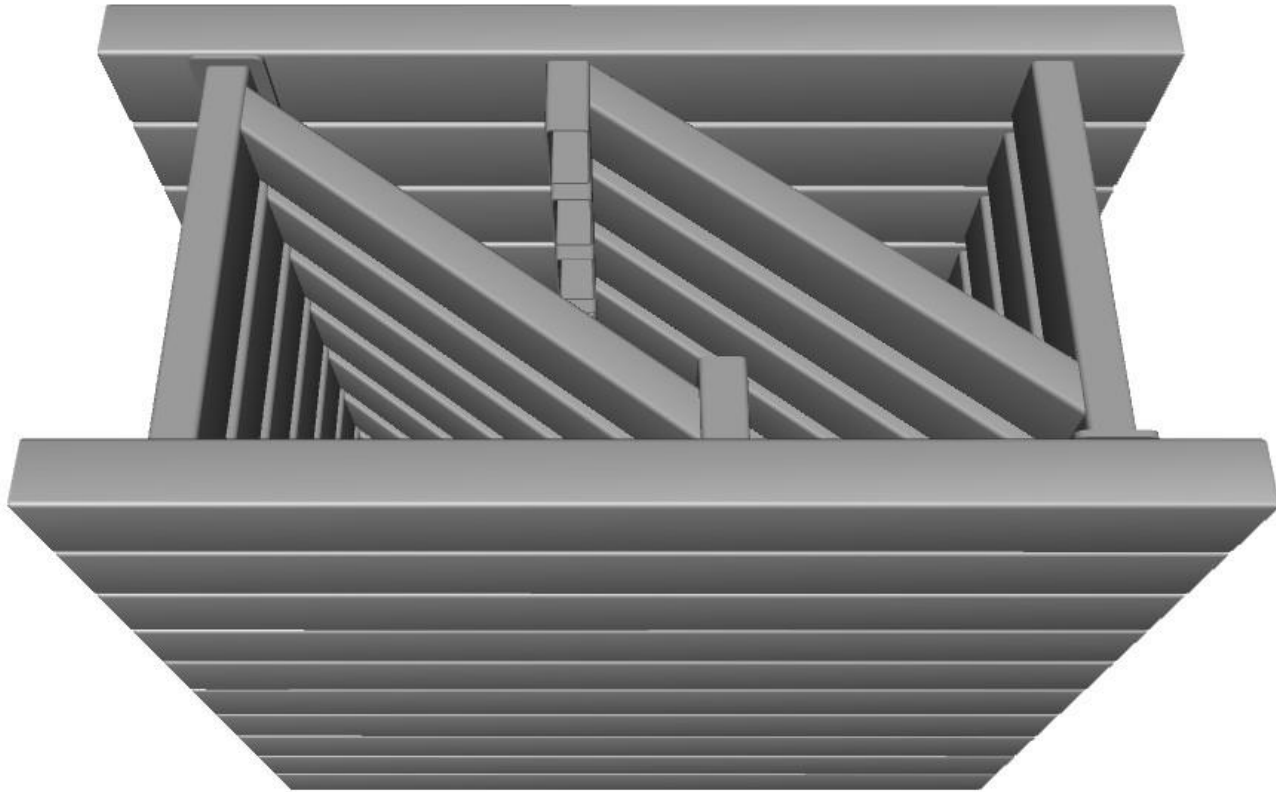
Some Fabrication Project References



Winch Supports



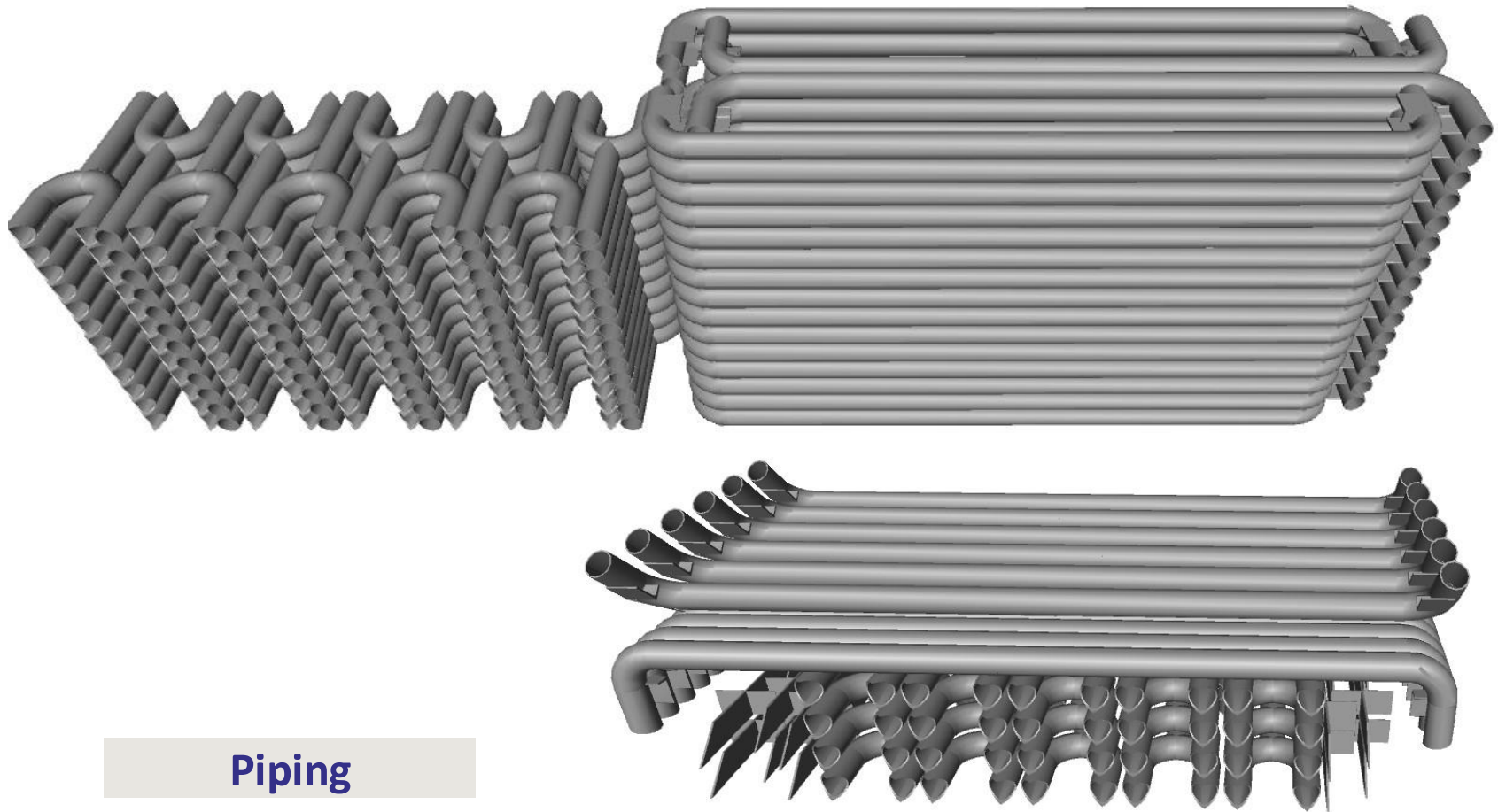
Some Fabrication Project References



Support Structures



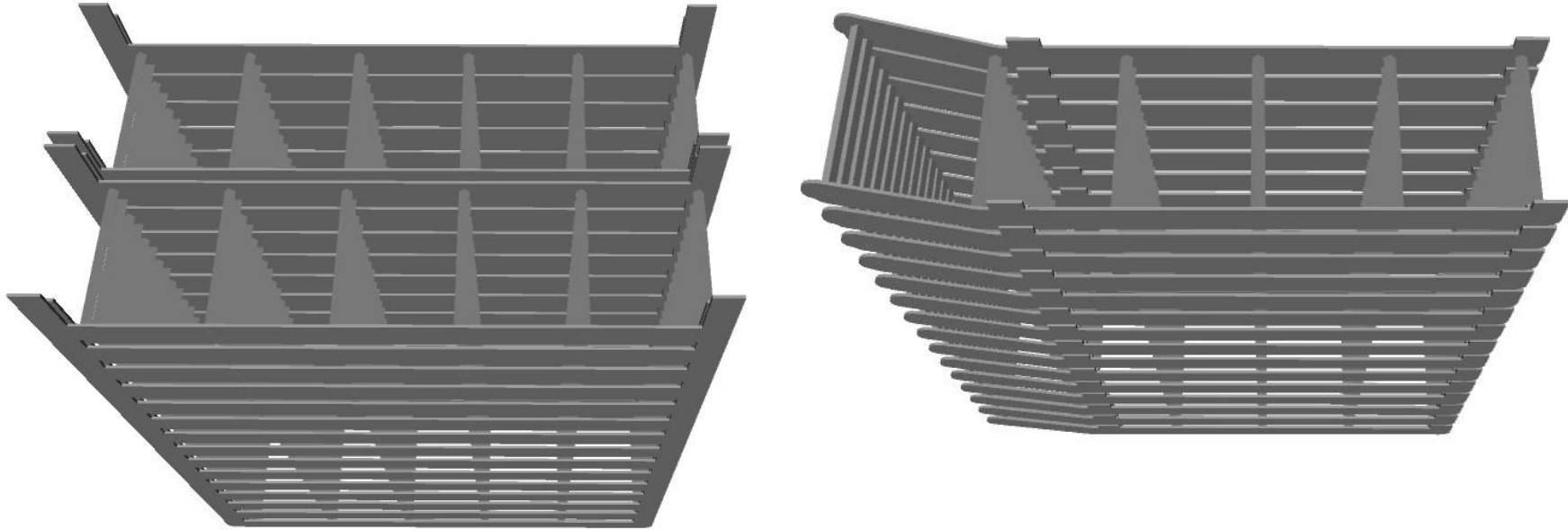
Some Fabrication Project References



Piping

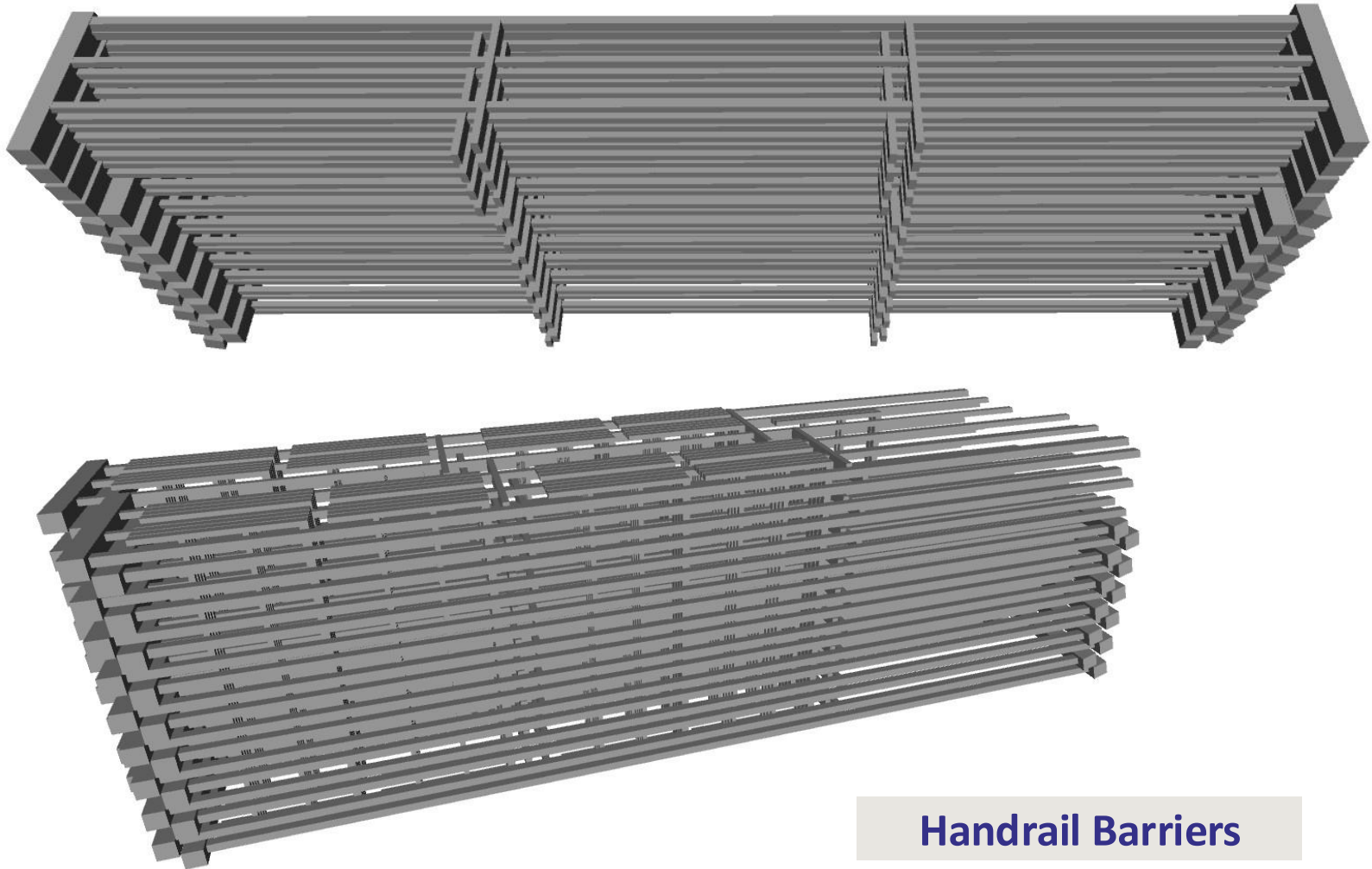


Some Fabrication Project References



Ladders

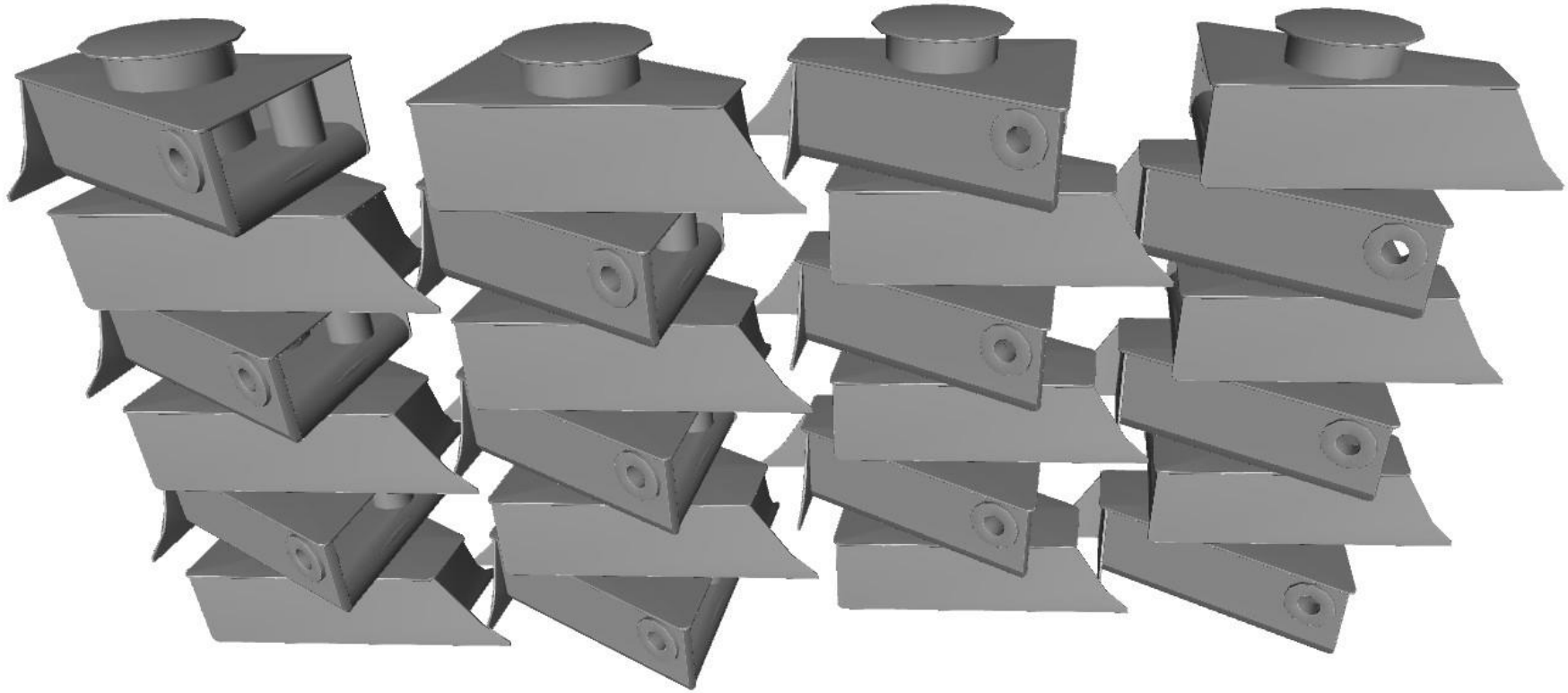
Some Fabrication Project References



Handrail Barriers

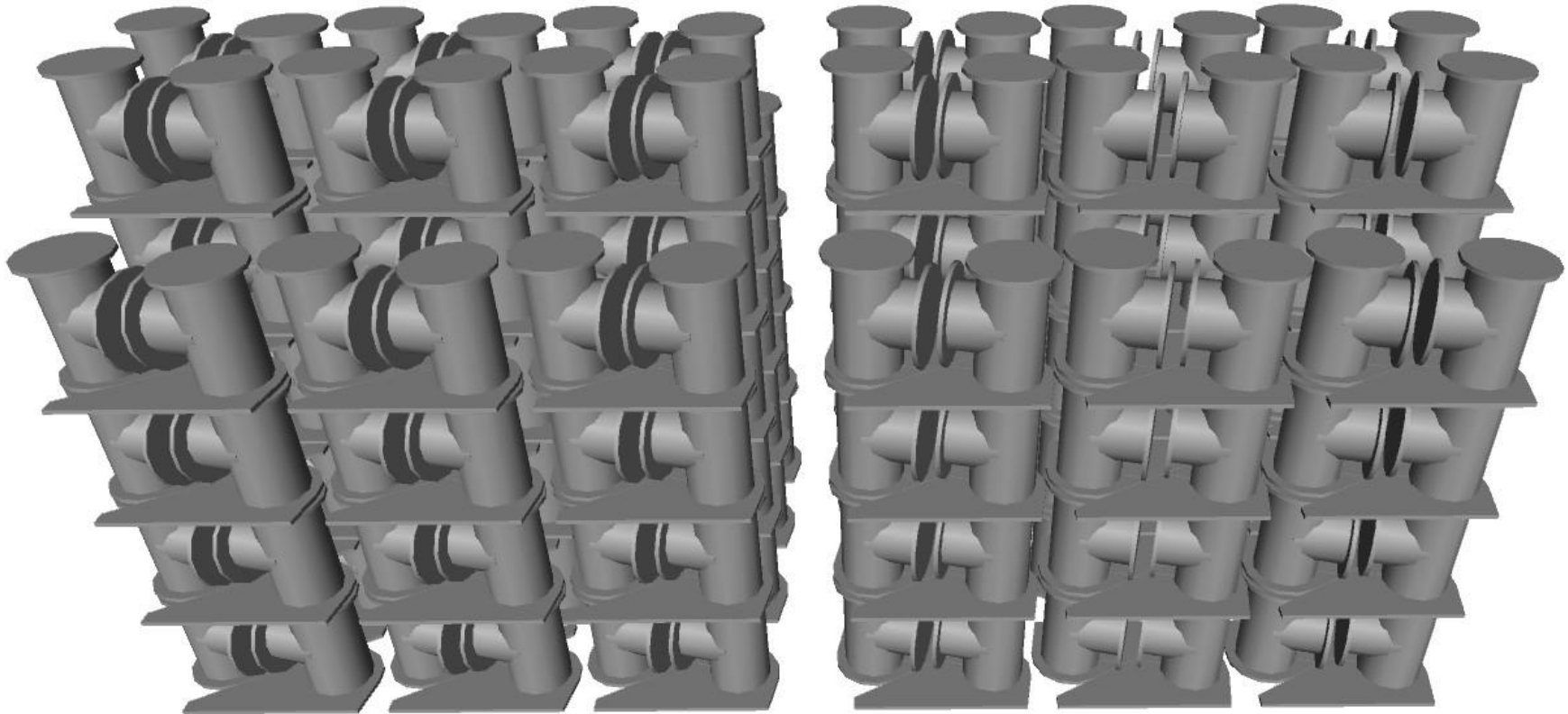


Some Fabrication Project References



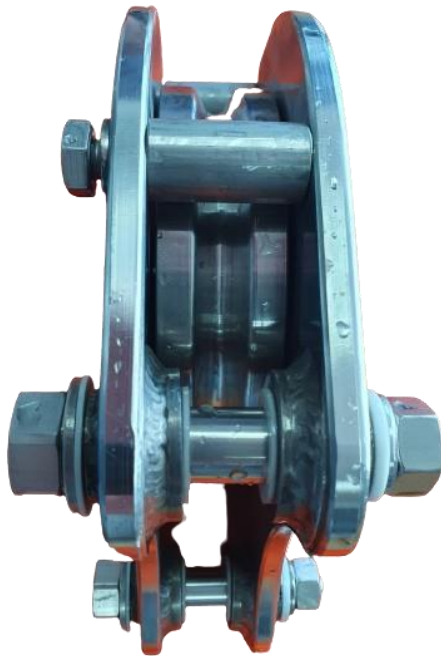
Winch Connectors

Some Fabrication Project References

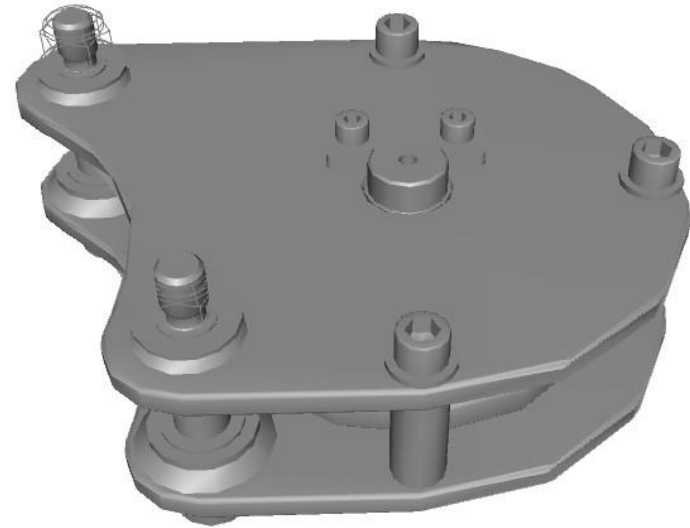


Bollards

Some Fabrication Project References



Sheave Blocks

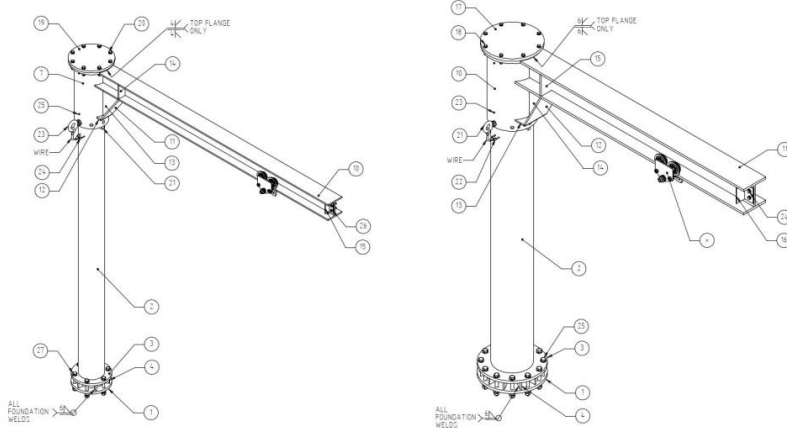


Some Fabrication Project References



Fairleads

Some Fabrication Project References



Davits for Anna Nery FPSO



Some Fabrication Project References



LxWxH: 4.6x2.2x2.1m
Weight: 3.0 Metric tonnes
Fabricated Units: 18
Material: Stainless steel – SS316L
Max. filter screen opening: 0.08 – 0.10 mm
Capacity TF-4017: Approx. 3200 m³/h

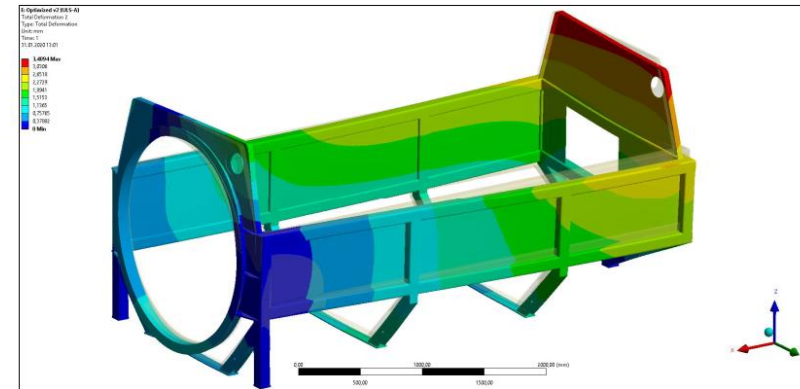
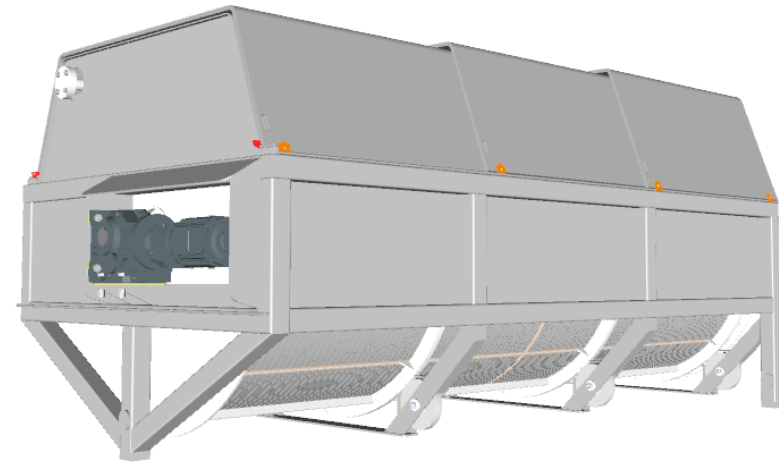
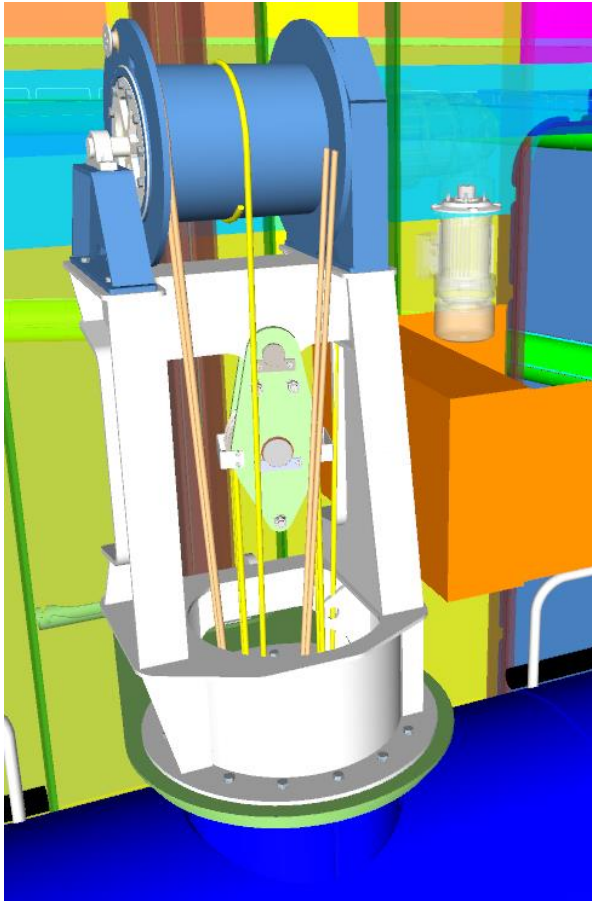


Fig. 4-11 Analysis model for the filter structure, showing the resultant displacement plot for the frame structure.

Filter for clening Sea Water



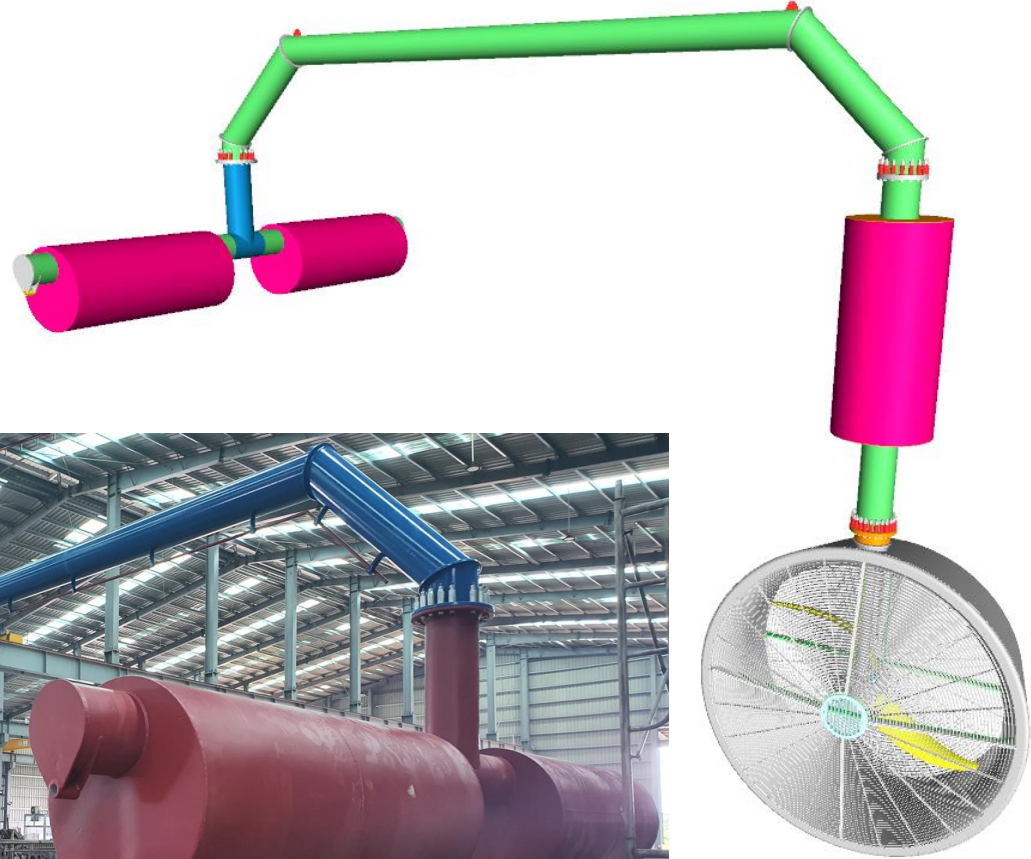
Some Fabrication Project References



Lifting System for Fish Cages including winches



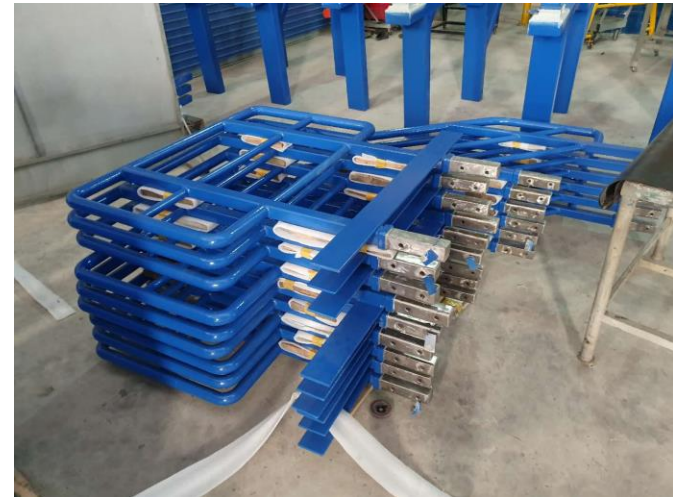
Some Fabrication Project References



Nozzles with
Supports for
Fish Cages



Some Fabrication Project References



Sheave Blocks and Outfitting Structures



Customer successes identify Techvalue Norway AS

Thanks for your attention!

