

Design for Manufacturing and FEA Stress analysis on Container Mobile Home : 18ft Standard container ISO 1161 CSC Certified

THE CLIENT

A Netherlands based client have redefined independent traveling by introducing “truck - independent” models, incorporating the unrivaled feature and benefit of the container concept.

THE BUSINESS NEED

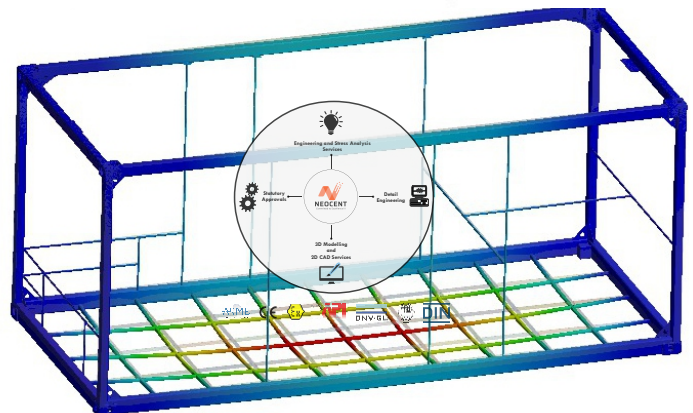
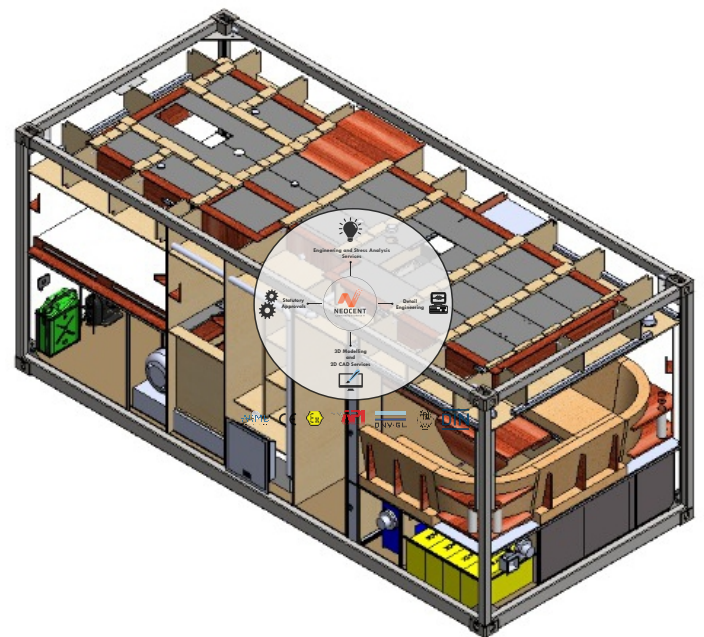
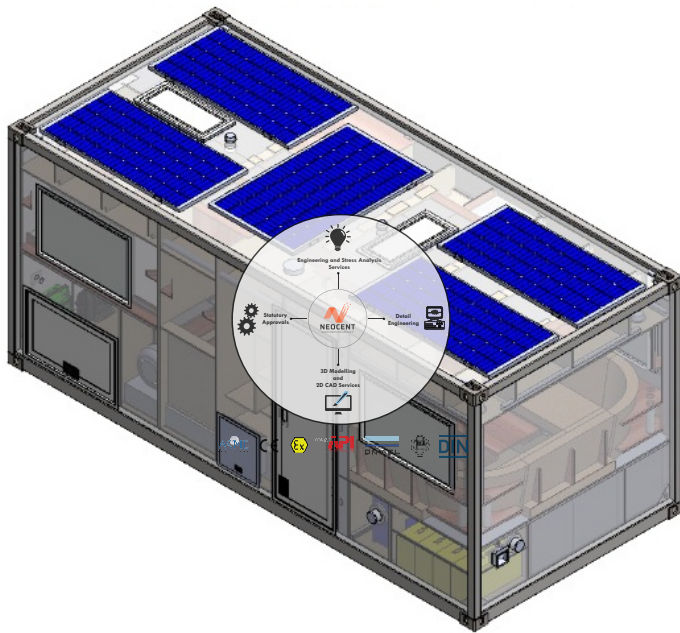
Our client was seeking engineering design assistance for a 18ft Long Standard container with ISO 1161 CSC Certification design. Client wanted Stress simulation on Container structure for CSC certification and ABS Approval.

NEOCENT SOLUTION & DELIVERABLE

Detail Engineering : Mechanical detail design for container with ISO 1161 standard, Load calculation and Size optimization.

CAD Detailing : G.A. Drawing , Details fabrication drawing ,3D Modeling with all internal components (HVAC, Piping, Architecture, Refrigeration - Air conditioning unit, Water purification system, Solar system etc).

Analysis : The following force simulations shall be conducted on the Container. The design of the Container must be able to satisfy the stated conditions: Stacking, Top Corner Fittings Lifting, Bottom Corner Fittings Lifting, Longitudinal Restraint, Strength of End Walls, Strength of Side Walls, Strength of the Roof, Strength of the Floor, Transverse Rigidity, Longitudinal Rigidity.



Neocent Engineering Services is a multi-discipline engineering services company. Established in 2015, we offer high-quality engineering support solutions to global EPC organizations across some of the industries listed: Automotive, Aerospace, Turbo machinery, Heavy engineering, HVAC, Oil & Gas, Material handling and Process industry.

Neocent provides detailed engineering services to EPC, EPCM, OEM, and PMC as long-term turnkey projects. Our EPCM services include Project Management, Feasibility Studies, Conceptual & Basic Engineering, Detailed Design, Procurement, Construction Management, Commissioning & Start-up, and Operations & Maintenance.

Neocent Engineering's service offering, include;

- Engineering and Stress Analysis Services
- Details Engineering
- 3D Modelling and 2D CAD Services
- Statutory Approvals

Neocent FEA Consulting Services

Neocent Engineering expert engineers are proficient in analyzing the impact of external focus on static structures, such as construction components, machine components, and more. Our highly skilled engineers offer structural analysis to ensure that these modules meet fatigue safety requirements.

Our Structure and stress analysis specialists help simulated the movements of non-stationary objects in vibration analyses, lifting analysis, and other services. With our technology and experience in structure stress analysis, we quantify and further rectify failure in the structure of components that do not meet the proposed design plan, which could results from improper use of materials or even flaws in the manufacturing process.

Industry codes and standards adhered to by our Designers :

ANSI, AISC, UBC, ASCE, ACI, BS, IS.

The technical expertise of our FEA consultants in delivering Finite Element based product design optimization enables you to address complex engineering design problems and help validate product designs prior to production.

At Neocent, we aim to achieve our vision by emphasizing ensuring that our offerings meet the following criteria, agility , on-time delivery, superior quality, cost-effectiveness and great efficiency continues learning culture amongst the team an able and guarantees continuous innovation in the business.

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