

Technical flyer

General Company of Industry

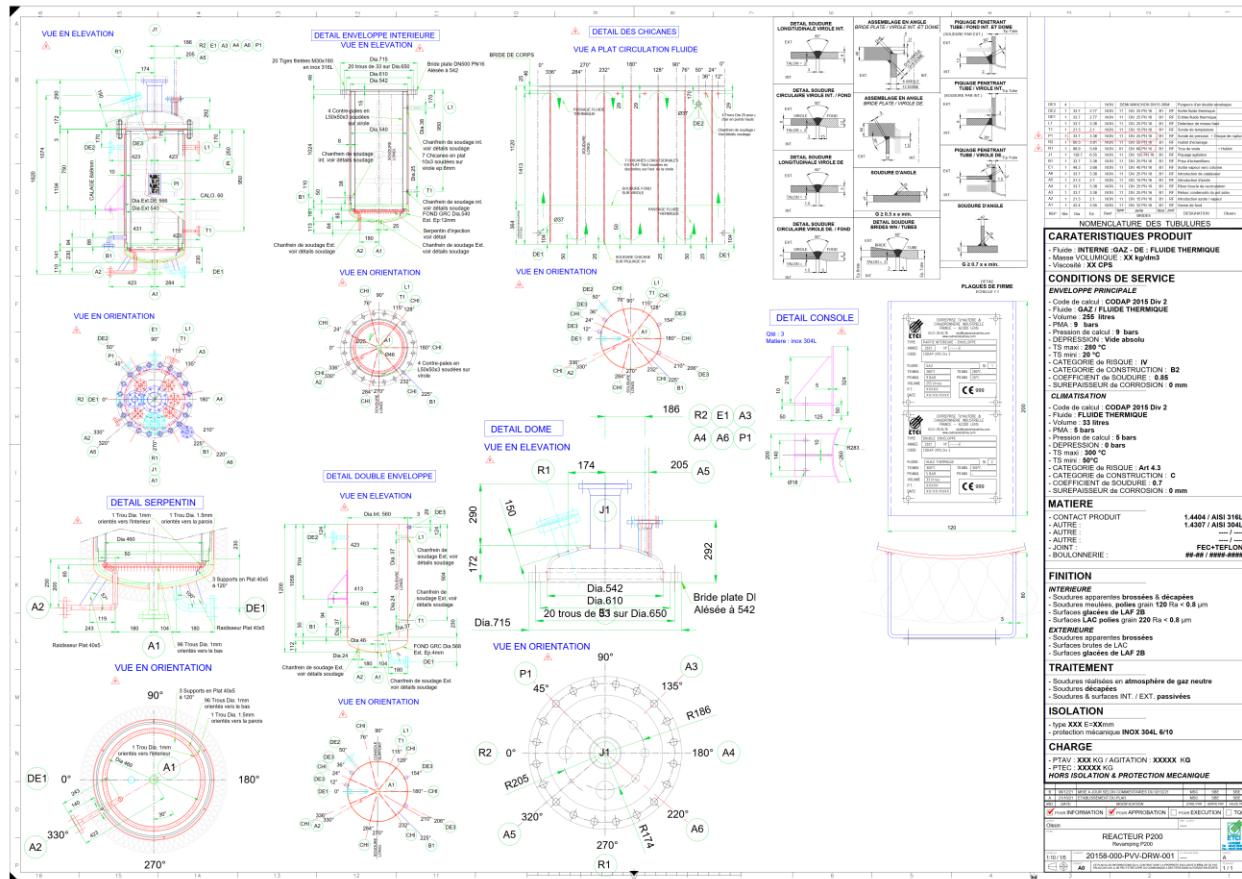


Your engineering, our critical path

- An innovative technical design office
 - Three core business
 - Frame and support
 - Piping
 - Pressure vessels
 - Unique software expertise (more than 10 business software)
 - Application of French, European and international standards and calculation codes

Design of pressure vessels

- Drawings and calculation notes



B: Situation 1

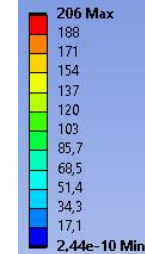
Intensité de contrainte

Type: Intensité de contrainte - Dessus/Dessous

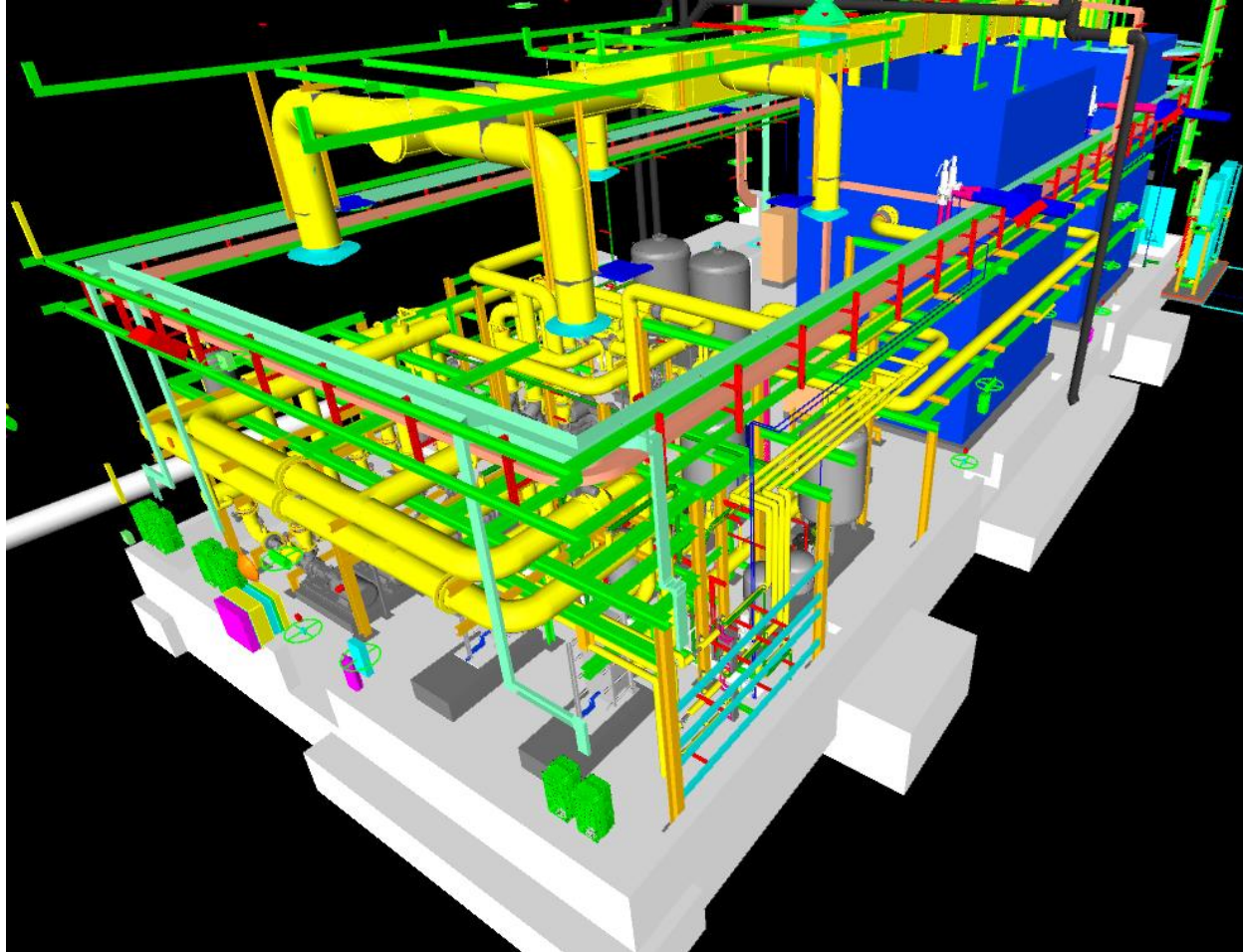
Unité: MPa

Temps: 3600 s

20/01/2022 08:40

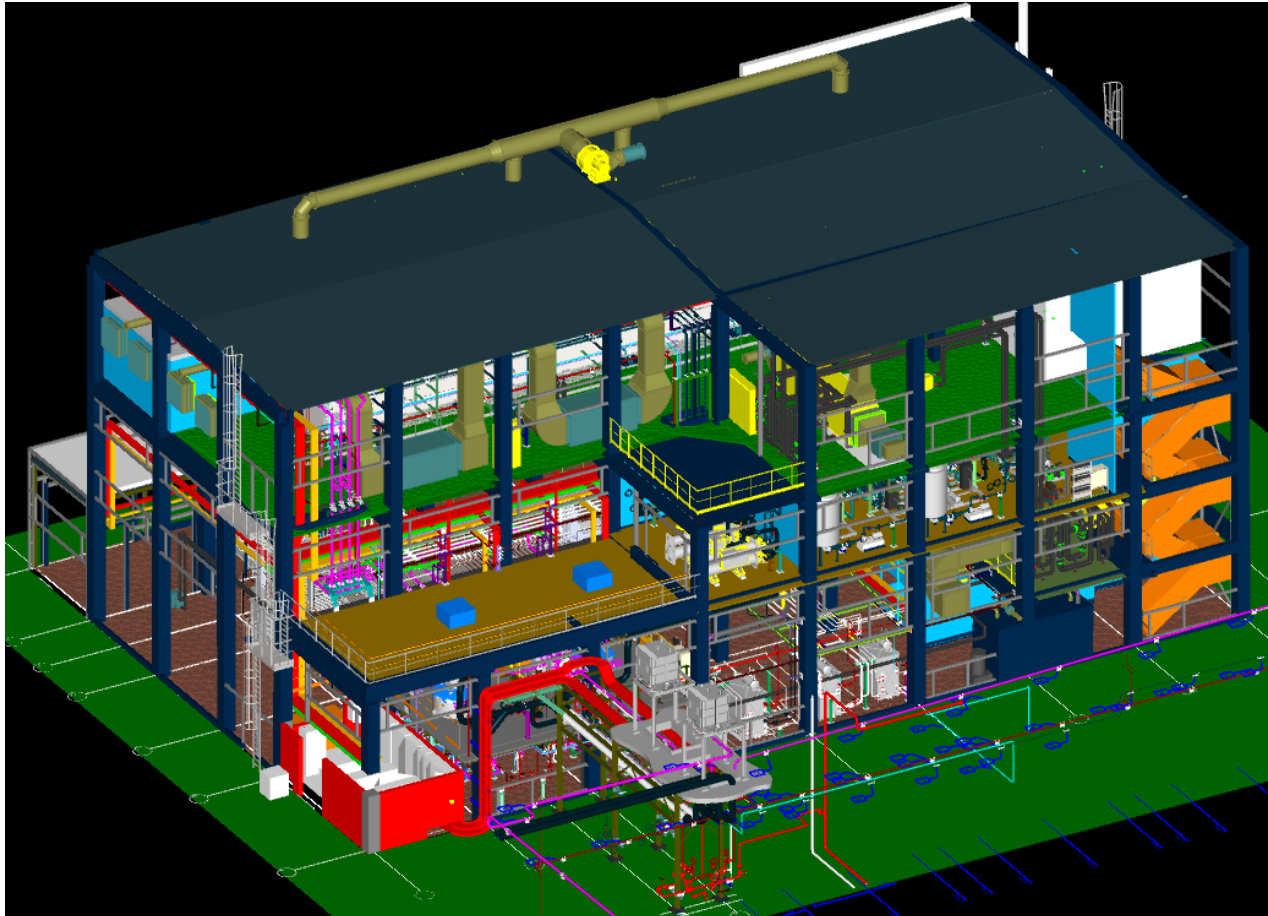


Expertise in general industrial installation



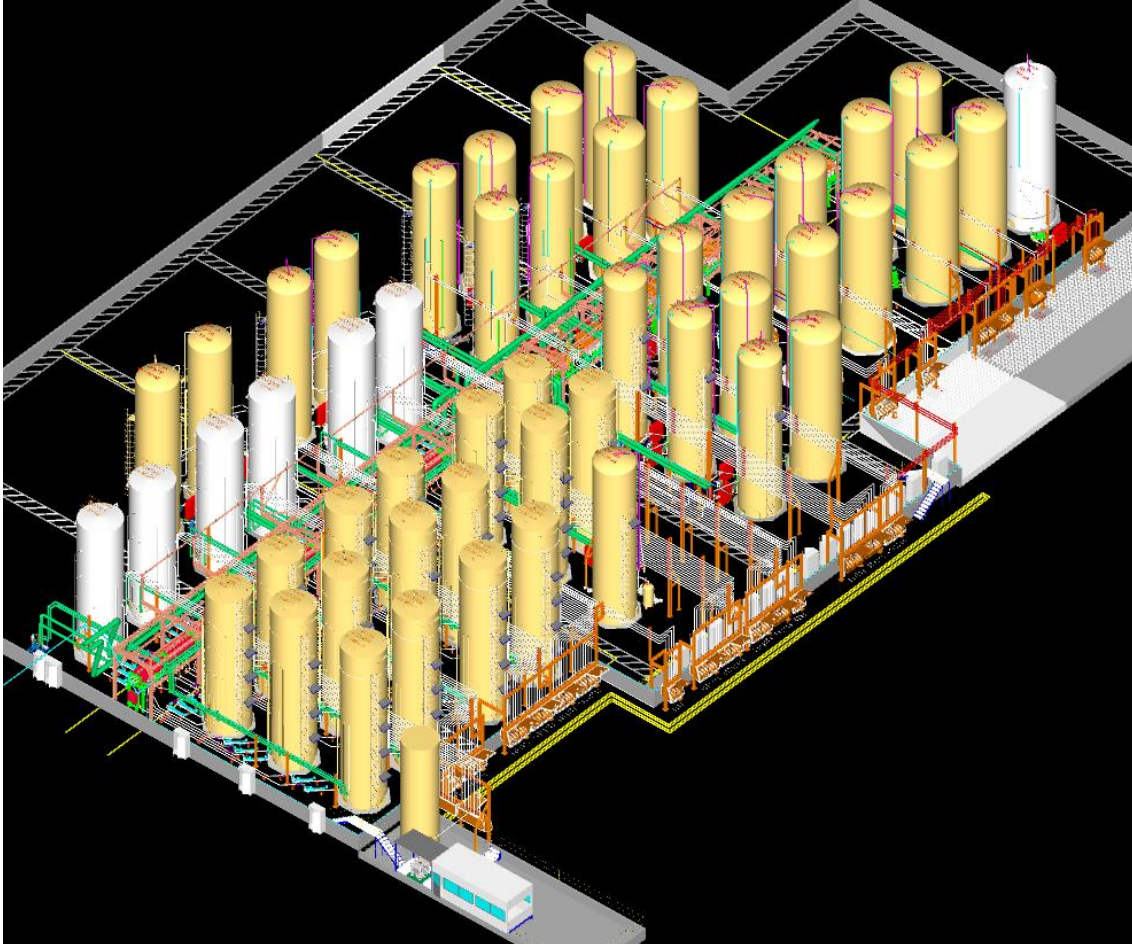
- Routing optimization
- Modification of 3D models
- PID updates
- AutoCAD Plant 3D
- Layout

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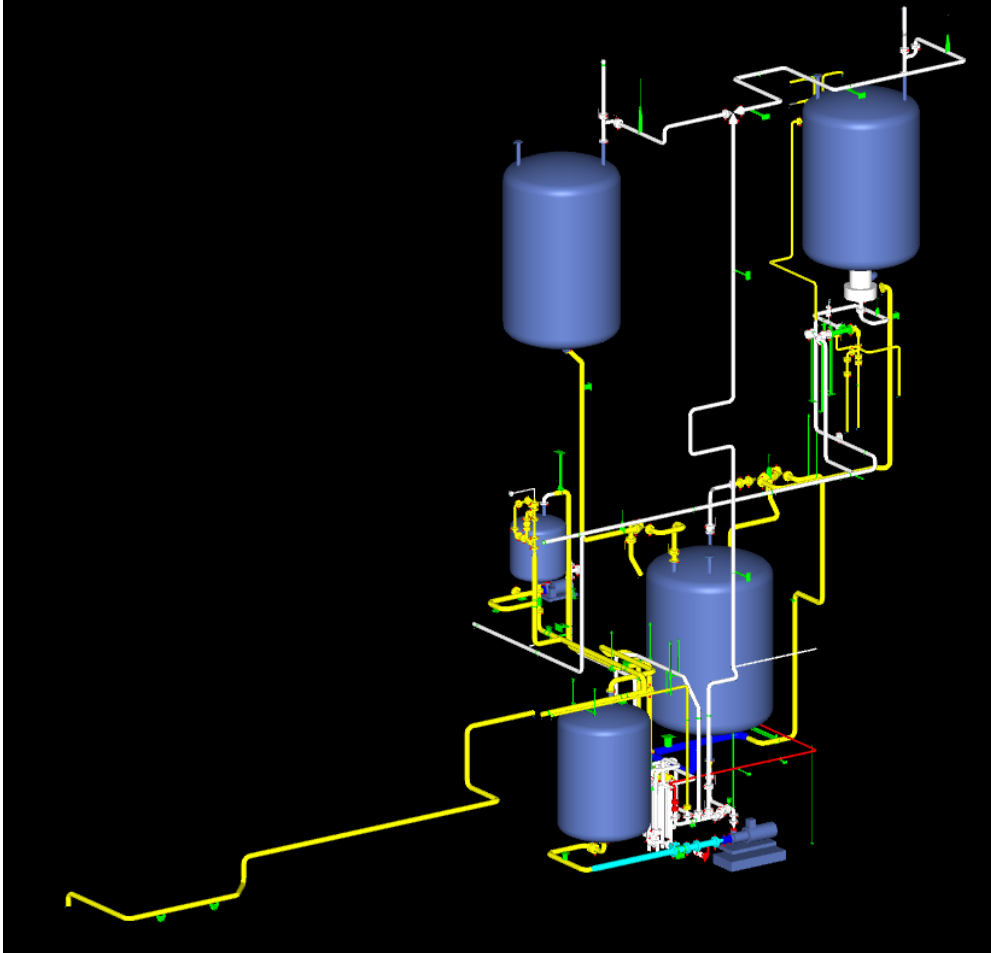
- Cooling skid frame calculations
- Lifting calculations
- Racks calculations
- Support calculations and support book
- AutoCAD 2D
- AutoCAD Plant 3D
- Robot Structural Analysis

Expertise in general industrial installation



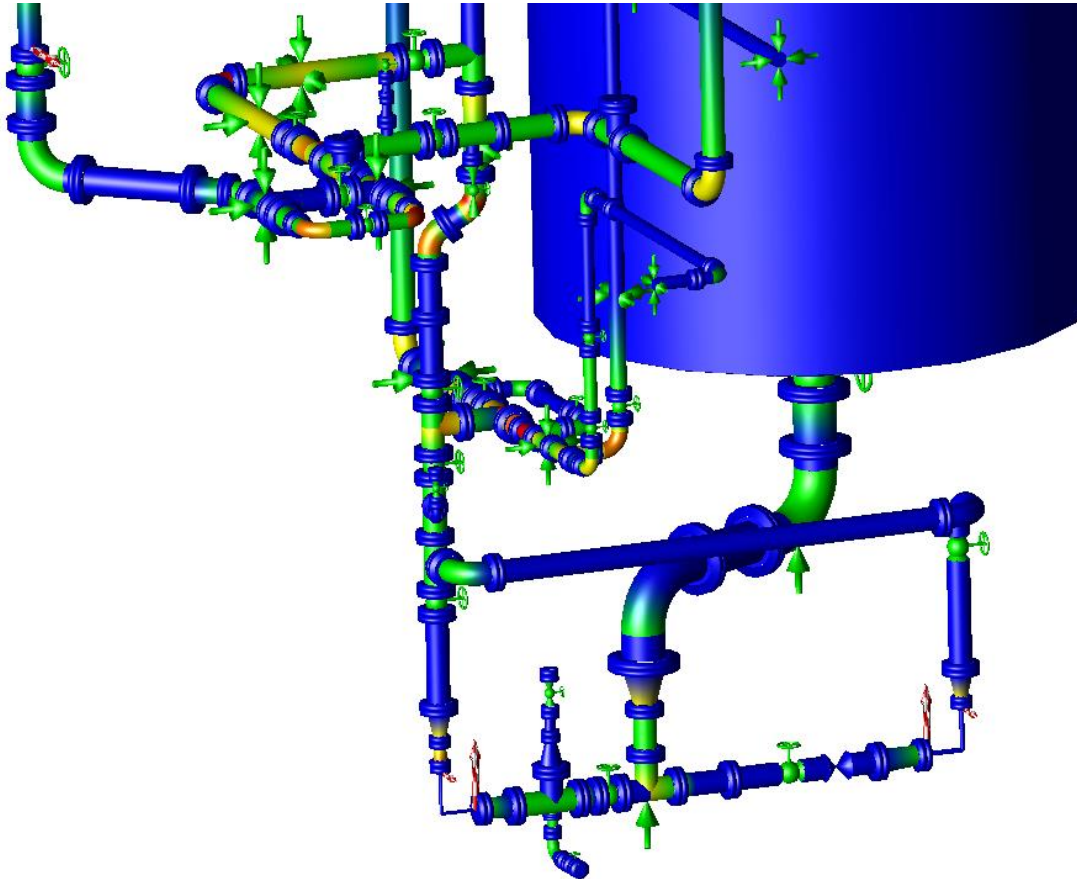
- Design of a covered sarcophagus of 80 meters, 28 tons of steel
- Wind and snow calculations (Eurocodes)
- Optimization of piping routing
- Support book

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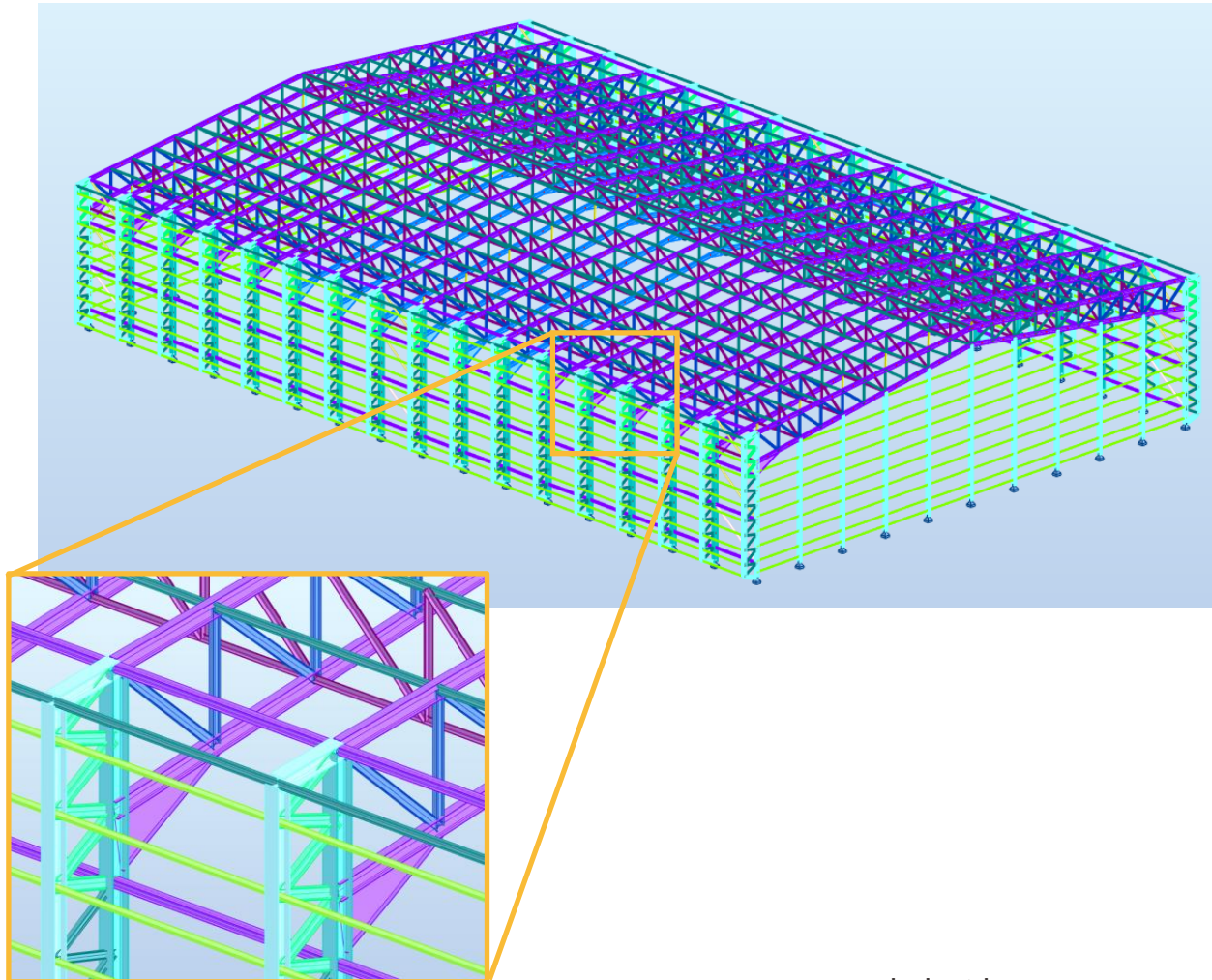
- New piping routes in the point cloud
- Coupling CAESAR II / AutoCAD Plant 3D
- Flexibility calculations according to standard EN 13480-3
- Calculation of plastic parts under pressure according to the German calculation code DVS

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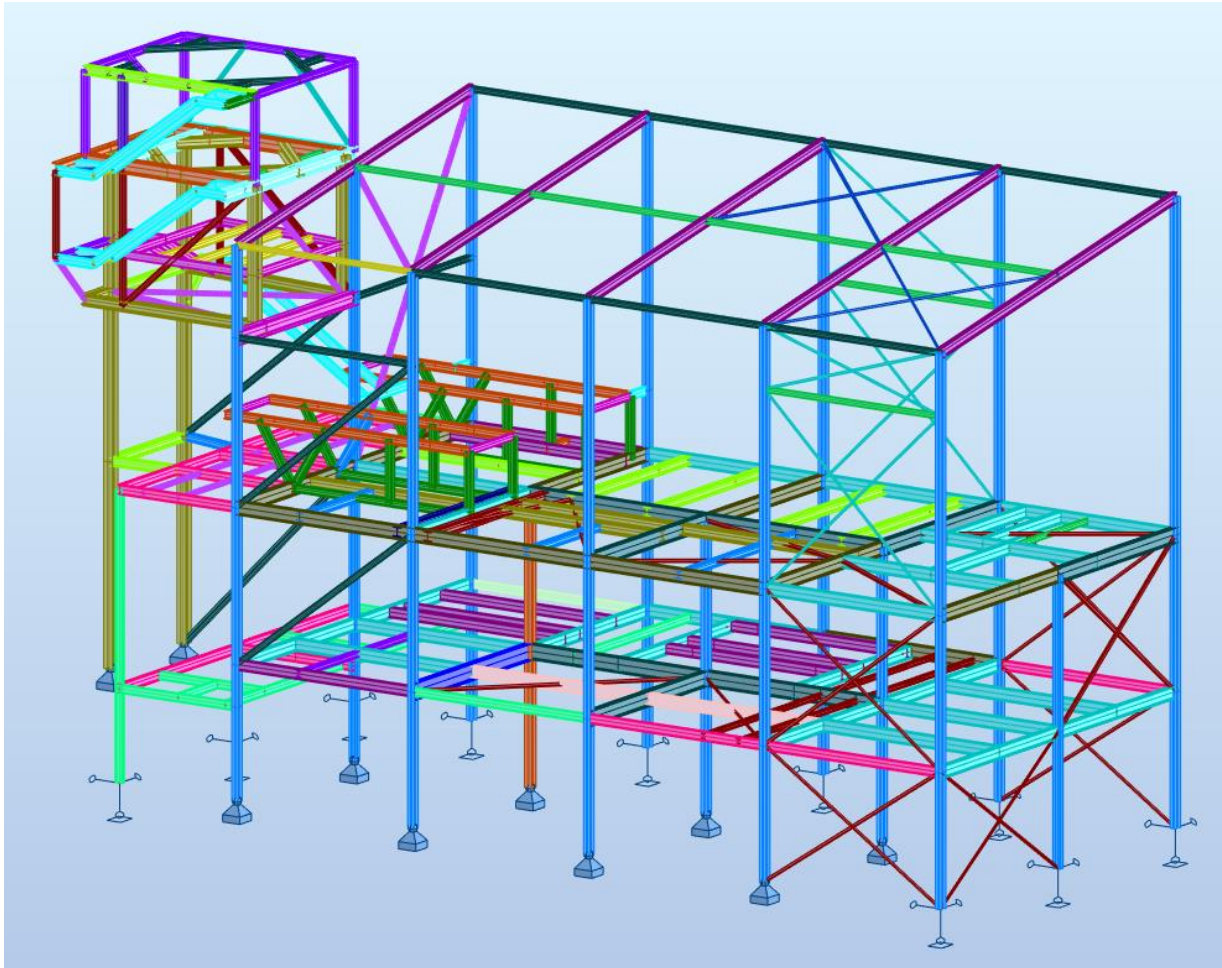
- Flexibility calculations according to standard EN 13480-3
- Calculations of admissible forces on equipment (pumps, reactors)

Expertise in general industrial installation



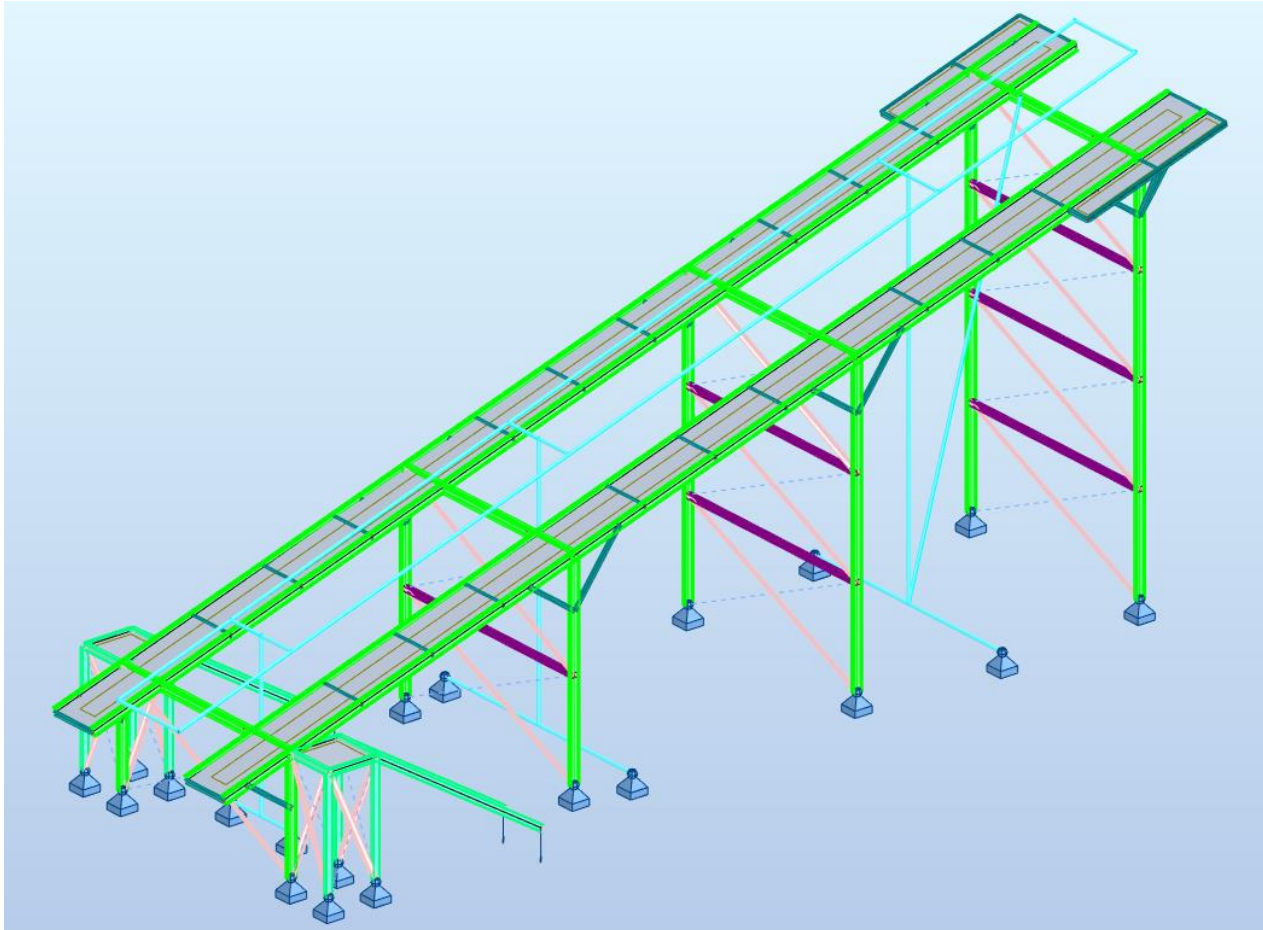
- Design of a new closed building
- 4000 m² (80 m x 50 m)
Height 15 m
- Steel weight : 425 tons
- Mechanical dimensioning with Robot Structural Analysis
- Combined action of wind and snow

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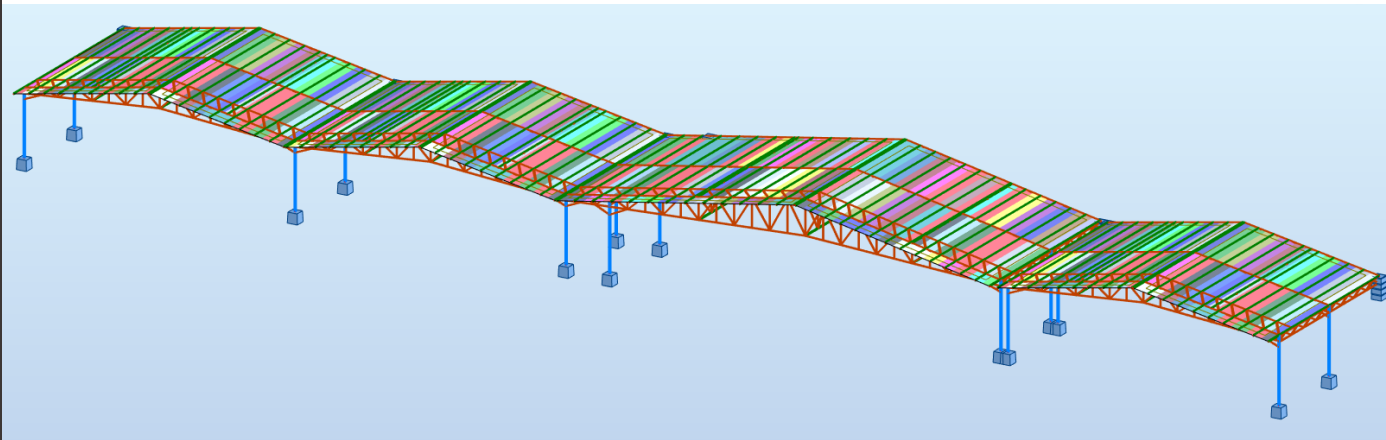
- Building : height 20 meters, 360 m² (30 m x 12 m)
- Extension of industrial buildings
- Evaluation of the new tonnage
- Update of operating expenses
- Calculations according to Eurocodes
- Automatic import of special profiles from AutoCAD to Robot
- Seismic excitation of equipment

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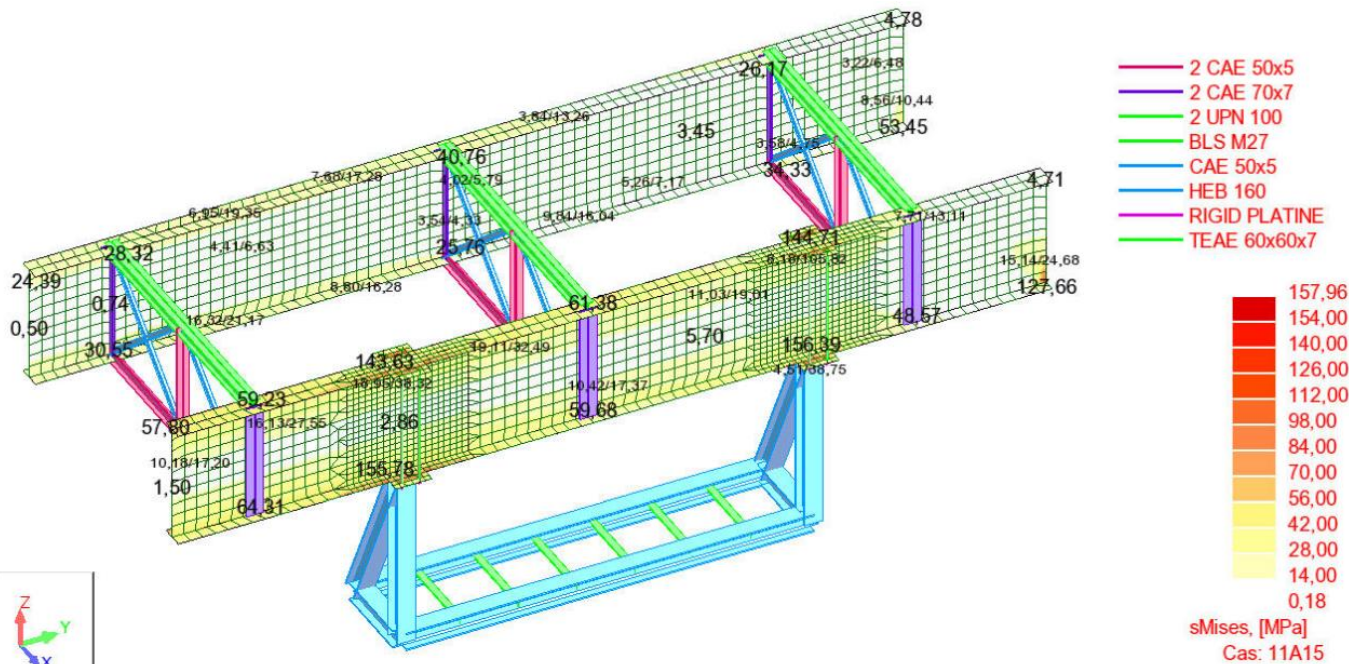
- Conveyor maintenance gateway
- Mechanical dimensioning with Robot Structural Analysis
- Calculations according to Eurocodes

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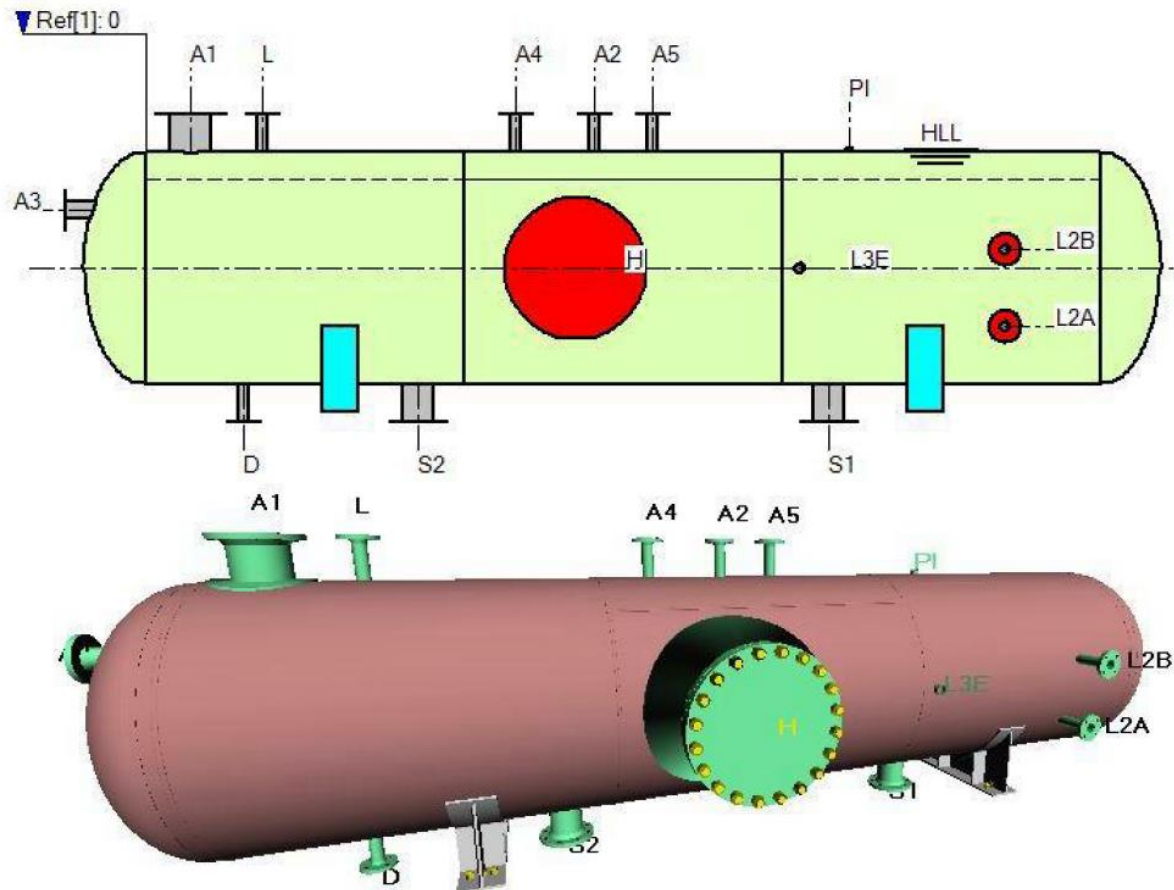
- Hangar extension allowing the passage of trucks
- 1800 m² and height 8 m
- Steel weight : 76 tons
- Mechanical dimensioning with Robot Structural Analysis
- Overpressure / depression on multiple insulated roofs

Expertise in general industrial installation



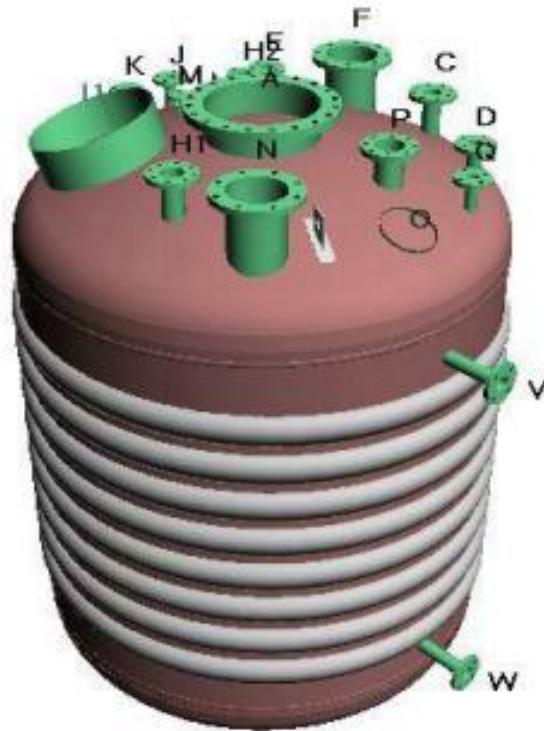
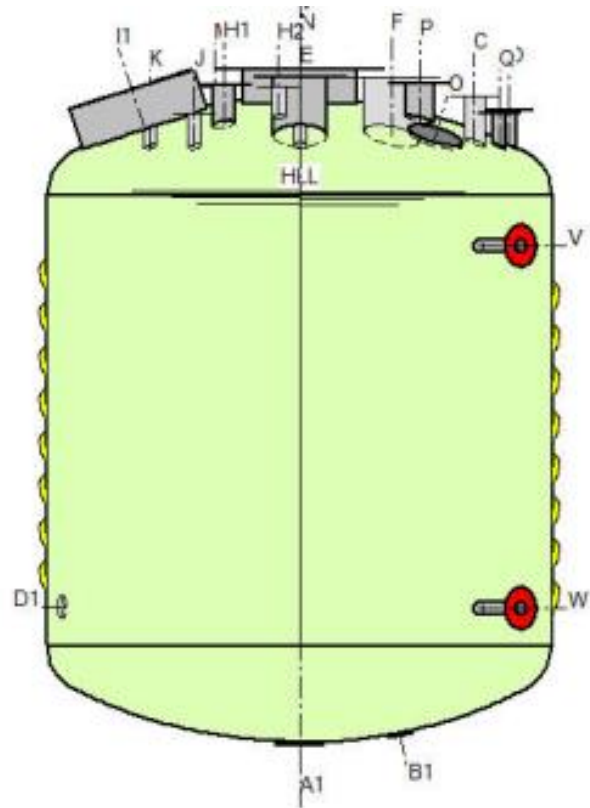
- Mechanical sizing of a maintenance gateway (in blue) of an old installation
- Coupling beam and shell model with Robot Structural Analysis
- Eurocode calculations

Expertise in general industrial installation



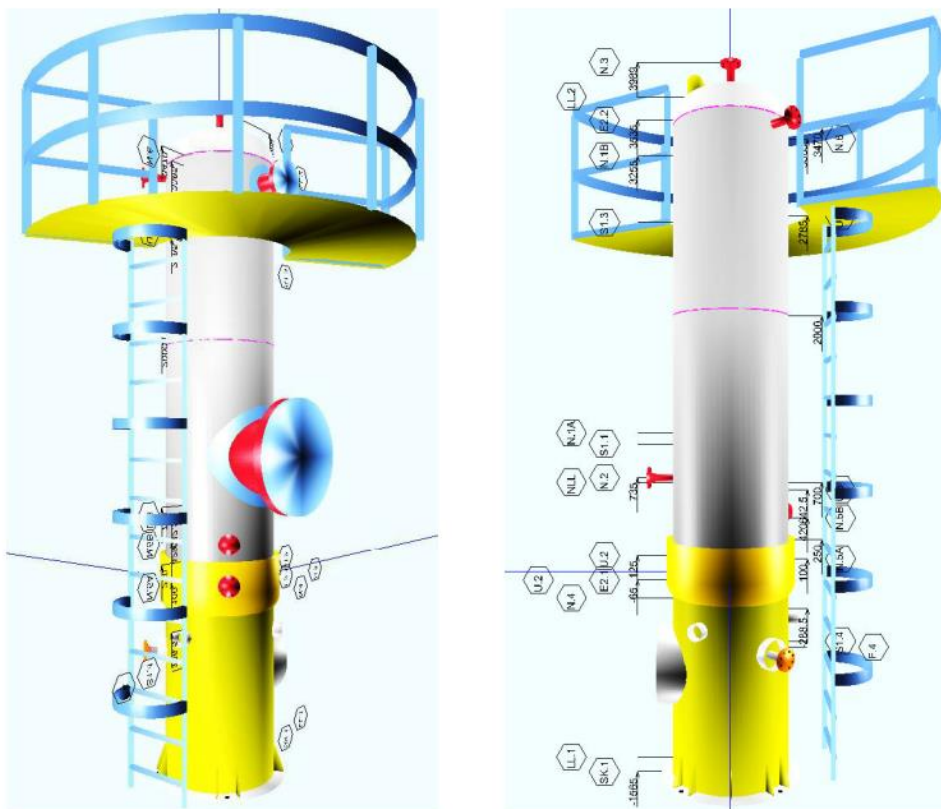
- Changes to the conditions of service of a device according to ASME VIII BPVC
- Calculations with AutoPIPE Vessel
- Checks of minimum thicknesses of steels to withstand internal pressure and temperature

Expertise in general industrial installation



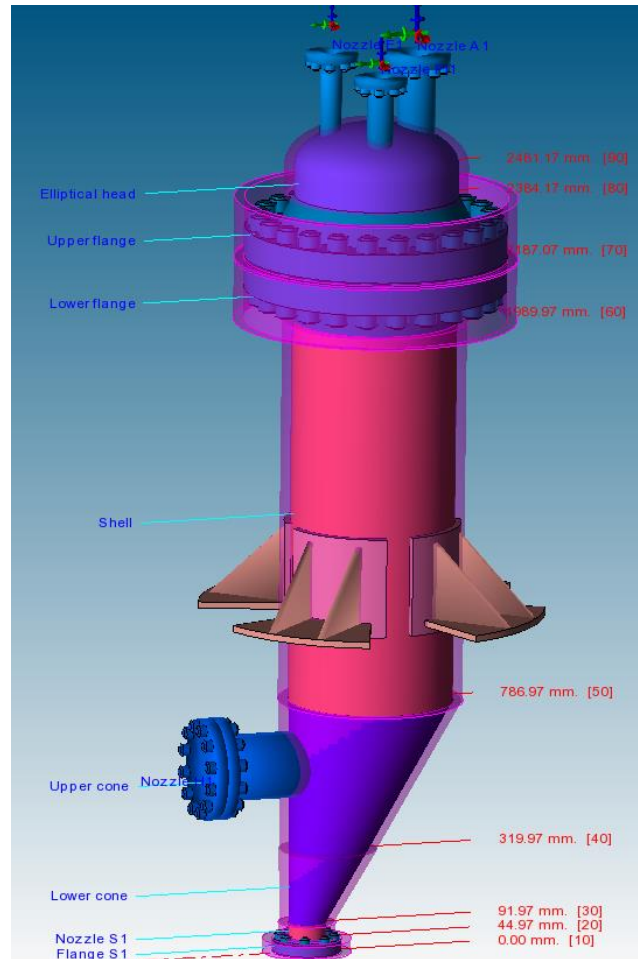
- Design of a new pressure vessel
- Calculations with AutoPIPE Vessel
- Execution drawings
- Checks of minimum thicknesses of steels to withstand internal pressure and temperature

Expertise in general industrial installation



- Mechanical sizing of a column with crinoline ladder and gangway
- Calculations with Visual Vessel Design
- Checks of minimum thicknesses of steels to withstand internal pressure and temperature

Expertise in general industrial installation



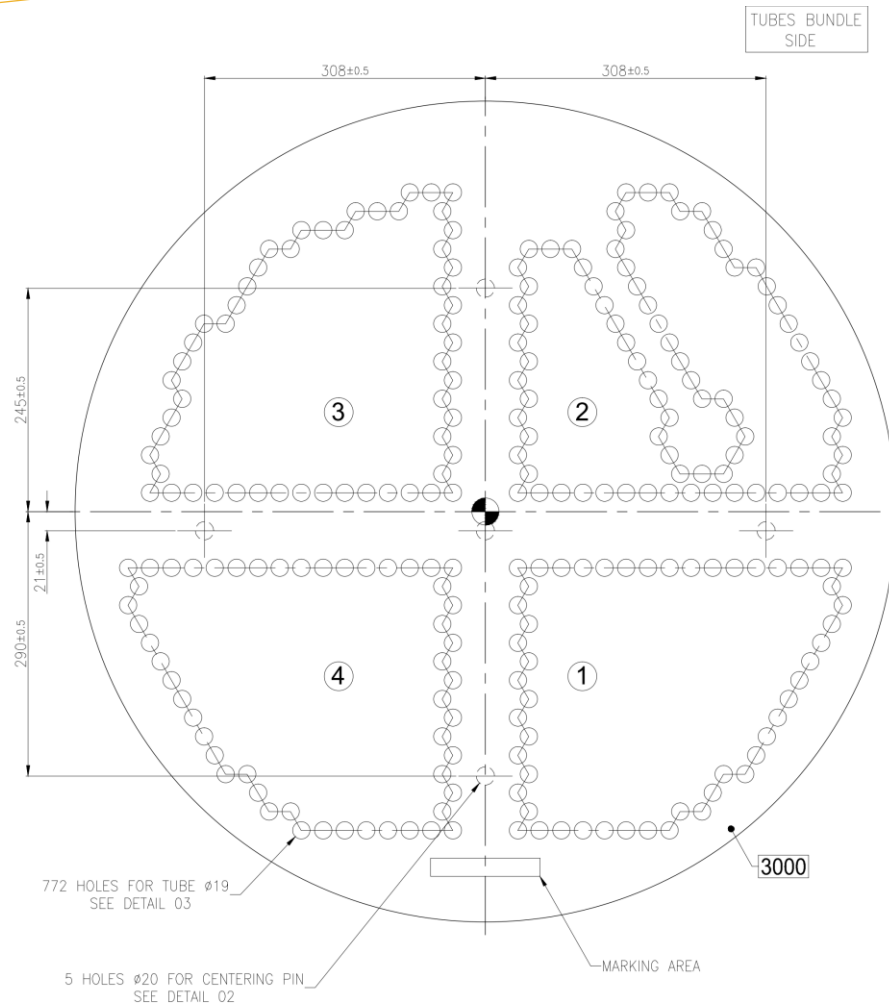
- Sizing of a draw-off airlock
- Calculations with PV Elite according to ASME VIII BPVC Div. 1 calculation code
- Checks of minimum thicknesses of steels to withstand internal pressure and temperature

Expertise in general industrial installation

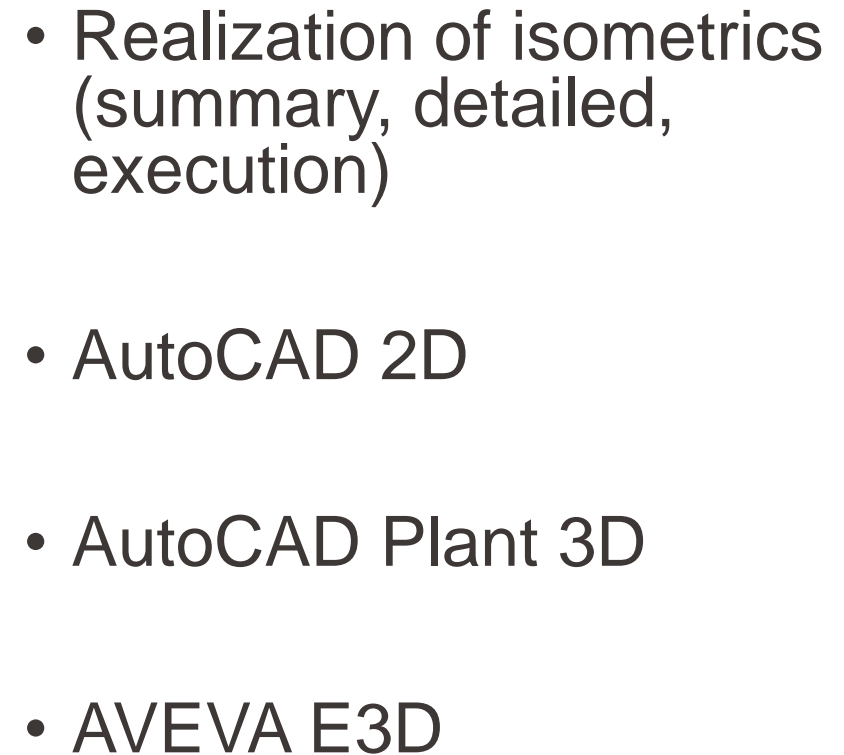


- Calculation of lifting journals
- 40 meter high column
- Stress diffusion calculations in steel
- Bulletin WRC 107

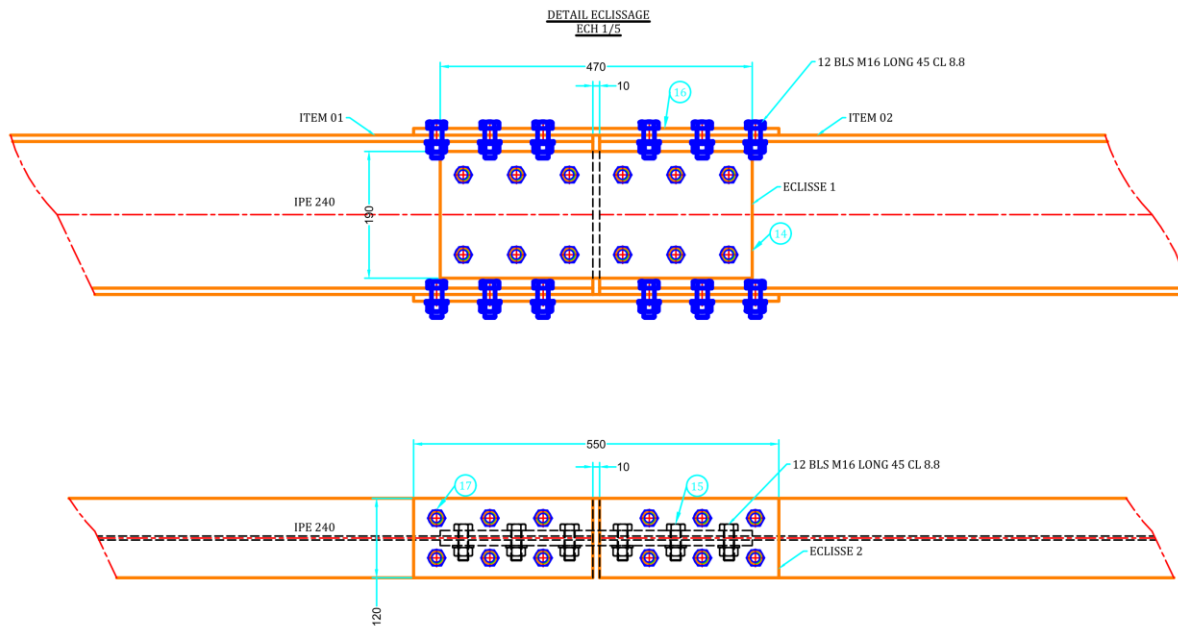
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- Studies and calculations of heat exchangers
- Realization of overall plans and details
- AutoCAD 2D

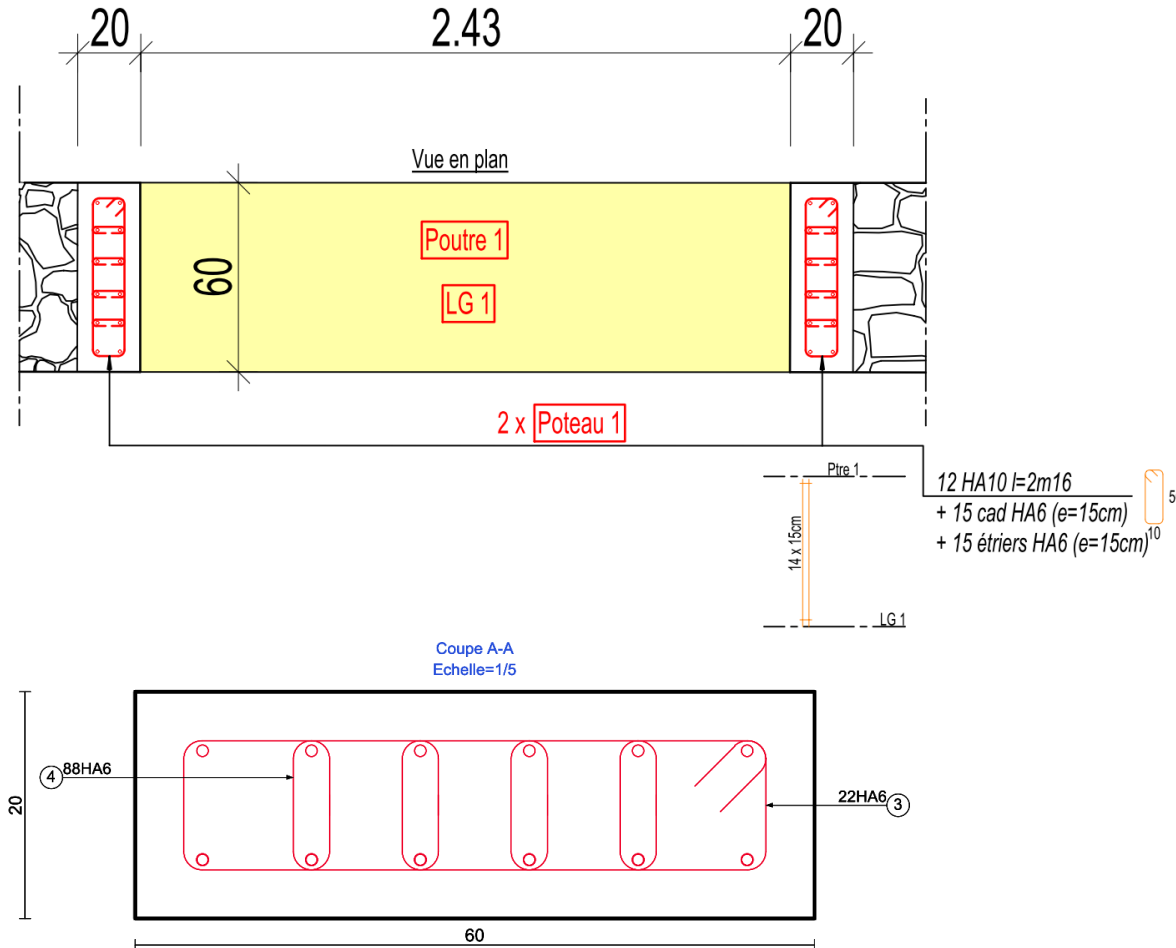


Expertise in general industrial installation



- Realization of overall plans and details
- AutoCAD 2D
- Solidworks
- Tekla

Expertise in general industrial installation



- Civil engineering (calculations and studies)
- Realization of overall plans and details
- AutoCAD 2D



Service 24/24, 7/7, 365/365

- Geographic implantation :

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