CASE STUDY

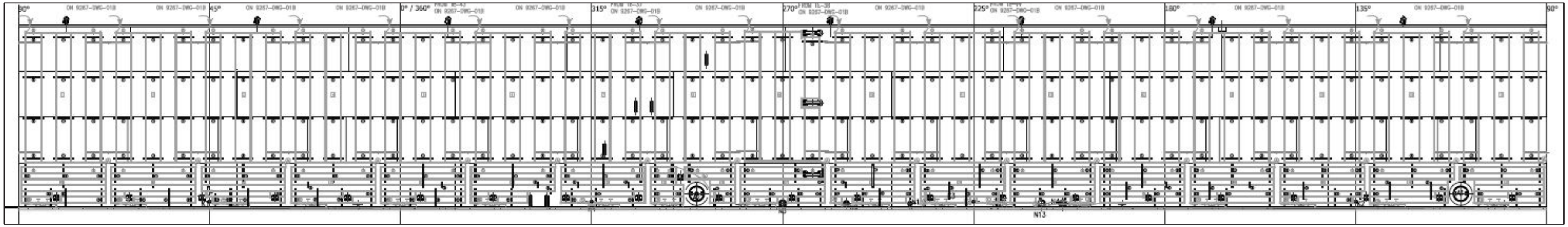
THERMEX SJR ON9655

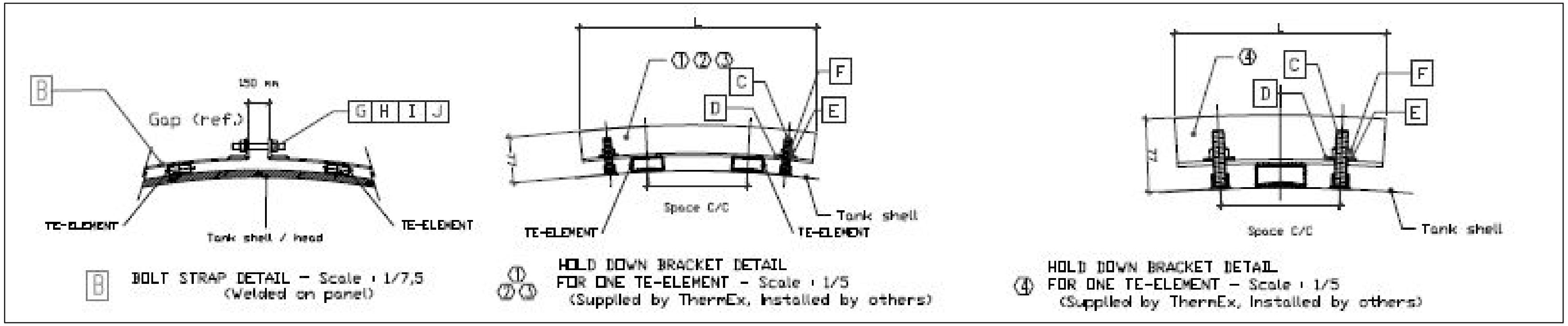
Client	SJR Tankbouw
End client	Shell Pernis
Scope of supply	Bolt-On heating system for 1 Sulphur Storage Tank
Item	SRU T425
Tank OD x Height	24400 mm x 9150 mm
Project value (€)	312K
Manufacturing year	2019
Start Date	28-03-2019
Finish Date	08-07-2019
Capacity needed	1588 hours

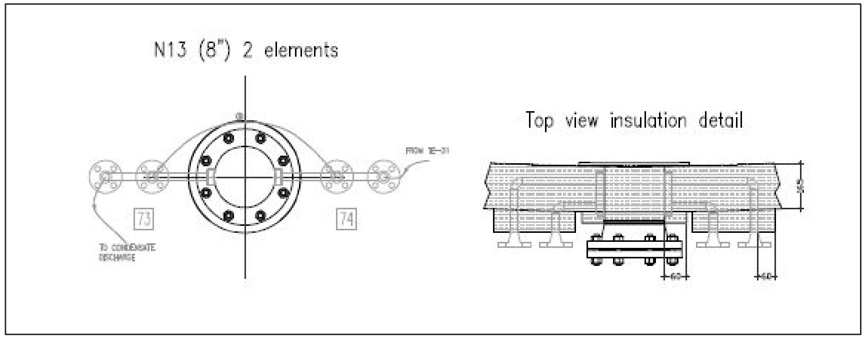
DESIGN CONDITIONS

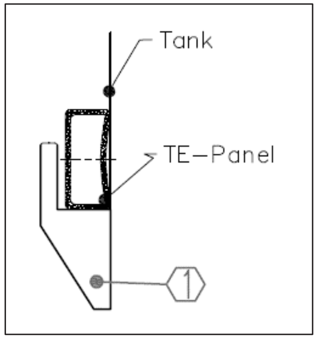
Design code	CE/PED 2014/68/EU - ASME VIII, Div.1.
Process	Liquid Sulphur (p= 1787 kg/h);
Operating temperature	140°C
Design Temperature	220°C
Design Pressure	9 Bar(g)
Heating medium	6.0 Bar(g) – 165°C (Steam)
Ambient condition	-20°C with a 45 m/s wind
Plate thickness	Shell: 12-9-8-6 mm, Roof: 6 mm
Third-Party Inspection (TPI)	LLOYD’S / SJR/SNR
NDE	100%

DRAWINGS

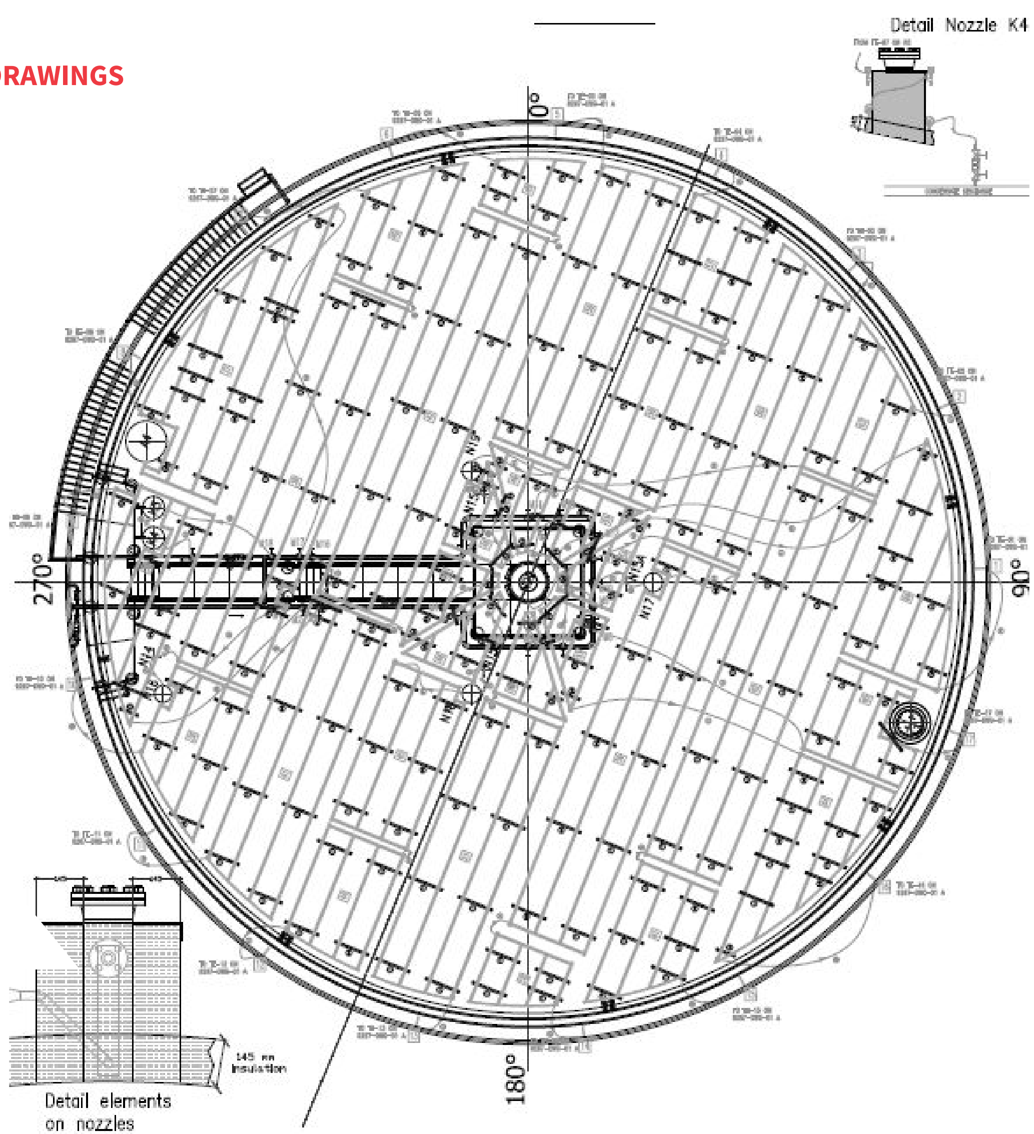


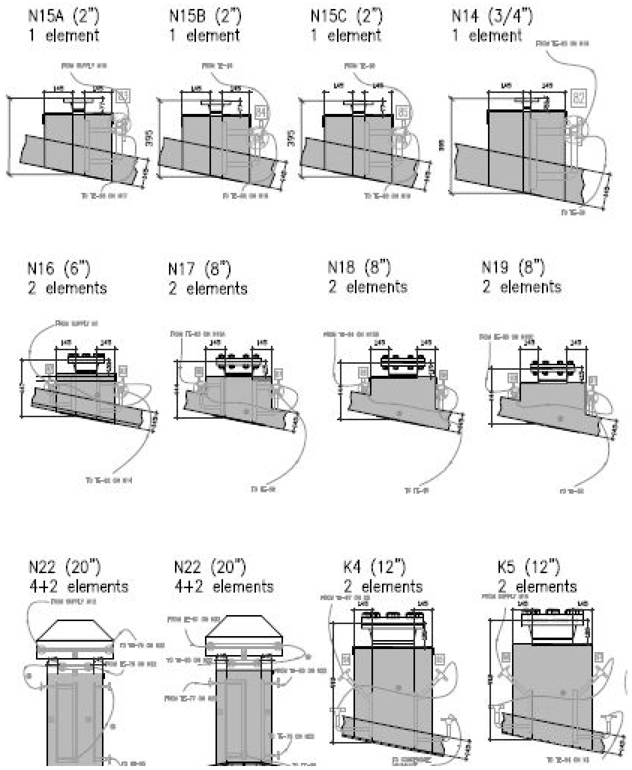

B
150 mm
Gap (ref.)
G H I J
TE-ELEMENT
Tank shell / head
TE-ELEMENT
B BOLT STRAP DETAIL – Scale : 1/7,5
(Welded on panel)
L
① ② ③
C
D
F
E
Space C/C
Tank shell
TE-ELEMENT
TE-ELEMENT
① ② ③ HOLD DOWN BRACKET DETAIL
FOR ONE TE-ELEMENT – Scale : 1/5
(Supplied by ThermEx, Installed by others)
L
④
C
D
F
E
Space C/C
Tank shell
④ HOLD DOWN BRACKET DETAIL
FOR ONE TE-ELEMENT – Scale : 1/5
(Supplied by ThermEx, Installed by others)


N13 (8") 2 elements
73
74
Top view insulation detail


Tank
TE–Panel
1

DRAWINGS





Number of elements	91
Number of welds	1136
Number of bends	168
Tank material	P265GH or equal
TE elements size	O.D. 50,8 x 3,05 mm seamless formed boiler tubing
TE elements material grade	P235GH

Delivery includes:

- Thermal and Mechanical design
- PED module B/F (type approval)
- Painting of elements (2-layer)
- Heat Transfer Cement
- Hangers and bosses for mounting wall and roof panels
- Band-it for mounting nozzle panels
- Special design of end caps (X-rayable welds as requested by enduser)
- Flexible hoses for connecting panels - Flanged design incl. gaskets/bolting
- Steam circuit design including and delivery of condenspots and gate valves
- Installation drawings and instructions