

Al Jubail, Saudi Arabia



Key facts about the plant

- Chemical plant
- Owner: Veolia Middle East, KSA
- Contractor: AIT-STEIN, France



Key facts about the chimney

- Completed in 2021
- Double skin steel stack
- H 65m
- Inner $\varnothing = 1,600\text{mm}$
- Stainless steel liner
- Free standing

Sadara Chemical Company Al-Jubail Complex is an active petrochemical complex located in Eastern Province, Saudi Arabia. The complex started commercial operations in 2015 and currently has an active annual capacity of 6.87 million tonnes per annum (mtpa).

Key products produced in this complex include ethylene, polyethylene, chlorine, propylene, and nitrobenzene.

AIT-STEIN plans, designs, manufactures and installs turnkey optimization and energy recovery units. AIT-STEIN's works ranging from combustion equipment to flue gas treatment, including of course all the equipment necessary for the exchange of calories with the aim to reduce the operating costs and the carbon emissions.

FERBECK INTERNATIONAL SA has been awarded an EPC contract for one 65 meter-high-steel stack by AIT-Stein.

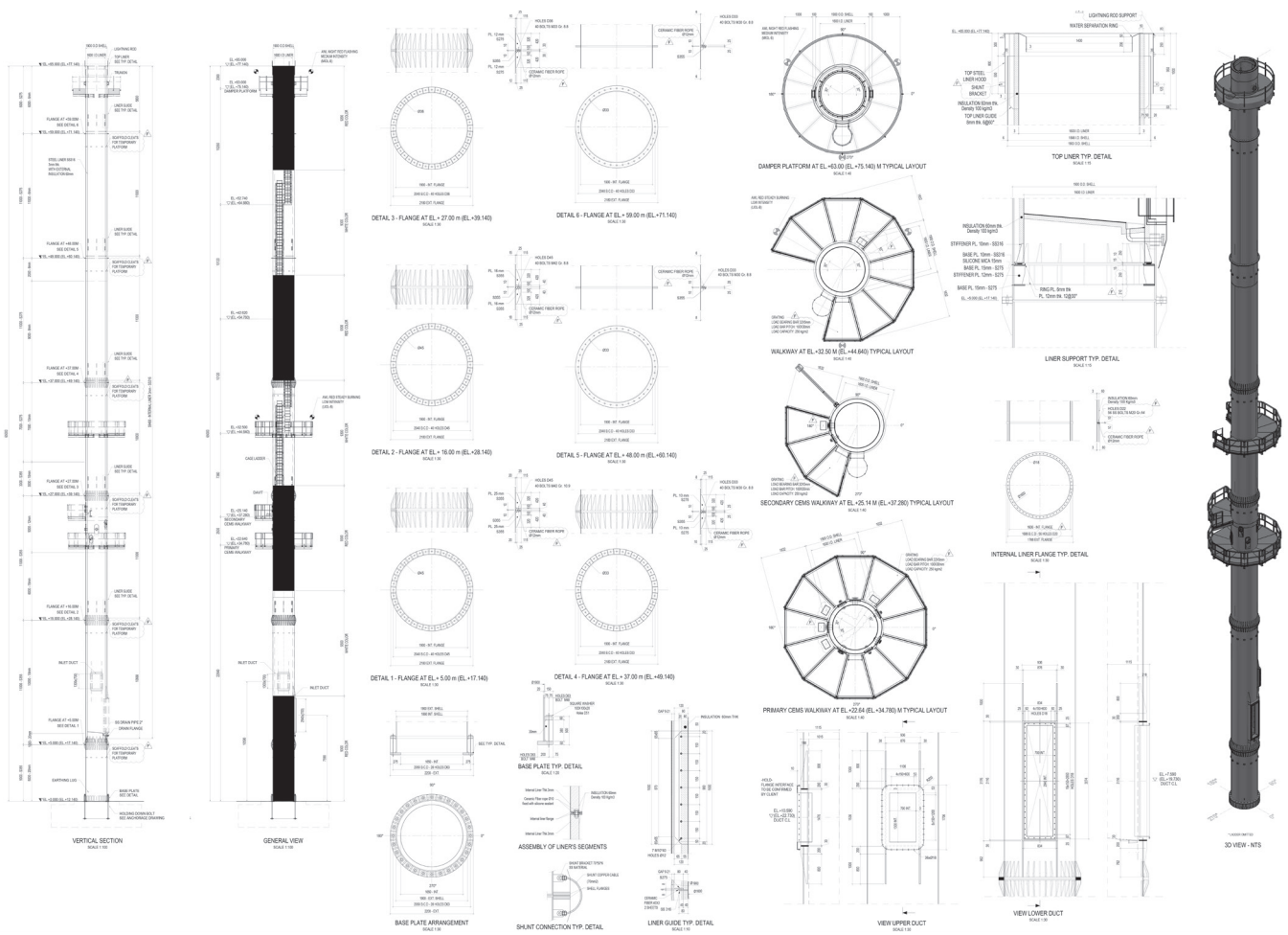


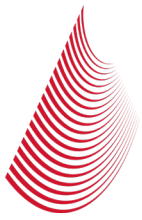


Steel stack

FERBECK's scope of work includes:

- anchor bolt for foundation
- platforms
- damper
- ladders
- electric system (lighting, power supply, aircraft warning lights...)
- lightning protection system





Components

Platforms

3 platforms are installed around the structure:

- damper platform at EL.+63m
- AWL platform at EL.+32.5m
- circular walkway at EL.+22.64m

Damper

A liquid anti vibration damper is used to avoid resonance phenomena, as well as issues linked to fatigue. It is smartly designed to be used as a top platform of the structure.

