

# Brine plant for winter road maintenance in Mainz

Germany



## Construction data

Product/Component	GRP silo, Brine mixing facilities, Réservoirs de saumure, Control technology
Model/Type	Automation systems, Galvanised steel operating platform roofed, Galvanised steel roof platform, Galvanised steel ladder, Brine mixing facility Quanto, Galvanised steel construction
Volume	100
Stocked goods	Salt

## Project details

Client:	LBM Rheinland-Pfalz
Project type:	Complete solutions, Brine technology, Conveyor technology
Construction:	2021
Locality:	Mainz
Country:	Germany

## Information Silo

Silo volume:	100m <sup>3</sup>
Silo height:	16,81m
Total height:	3,50m
Passage width:	5,50m
Total height:	4,70m

## Information Sole

Volume Sole:	50'000m <sup>3</sup>
Container diameter:	2,40m   3,50m
Height with Roof:	3,27m   6,32m

## Project description

The silo and brine plant in Mainz consists of glass-fibre reinforced GRP tanks, a 100m<sup>3</sup> silo for salt storage and a 50m<sup>3</sup> brine storage tank. The Quanto 24 salt dissolving-mixing plant is used for brine production.

Special mention should be made of the fresh water supply, which is routed in a heatable housing so that it cannot freeze. Furthermore, an integrated blowdown system is used for brine recovery. It removes the residual particles present in the rock salt and filters the brine into a separate collection tank. With the help of a pump, the clean brine is then returned to the circuit.

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100m<sup>3</sup> GRP silo with brine generator and 50m<sup>3</sup> GRP storage tank

Salt and screw conveyor



Interior view of brine generator with integrated blowdown system for brine recovery

Heated system cabinet