

Complete grit silo system with 3 x 400 m³, wooden silos in Sion

Switzerland



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Project details

Client:	Canton du Valais Dépt. de la mobilité du territoire et de l'environnement 1950 Sion
Architecture:	Pini Groupe SA Sion
Project type:	Wooden silos, Brine technology, Conveyor technology
Construction:	2020, 2023
Locality:	Sion
Country:	Switzerland

Construction data

Product/Component	Conveyor technology, Measurement and weighing technology, Pipeline routing, Round silo, Salt storage depots, Brine mixing facilities, Silo brine mixing facility, Réservoirs de saumure, Lärche
Model/Type	Automation systems, Galvanised steel roof platform, Manual filling funnel with adjustable height, Oak knocker, Galvanised steel ladder, Mobile return conveyor, Salt manager, Galvanised and duplexed steel construction, Loading mirror, Automation systems
Volume	3 x 400
Stocked goods	Salt, Brine

Information Silo

Silo volume:	1200m ³
Silo height:	18.38m
Total height:	7.90m
Passage width:	6.55m
Total height:	4.20m

Information Sole

Volume Sole:	30m ³
Container diameter:	3.00m
Height with Roof:	5.46m

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Project description

For the canton of Wallis, Blumer Lehmann has expanded and modernized the winter service facility in Sion in collaboration with Pini Groupe SA. The facility was specifically designed for the storage and processing of de-icing salt and brine, enabling efficient supply for the region's winter service.

With a total capacity of three silos of 400 cubic meters each and a height of 18.38 meters, the storage facility provides ample capacity to ensure a continuous supply even in severe winters. The silos are equipped with comprehensive conveying and measuring systems to ensure optimal storage and management of the salt. In addition to the silos, an additional brine tank with a capacity of 30 cubic meters was installed to complete the system and ensure rapid availability of brine.

The technical equipment of the facility includes modern conveying systems as well as recirculating and piping systems specifically designed for the handling and distribution of salt. Precise measuring and weighing equipment ensures that storage quantities and weights are constantly monitored. The roof platform, made of hot-dip galvanized steel, and an automated salt manager contribute to efficient, automated logistics that meet the demands of daily operations.

With the conscious choice of sustainable materials such as wood and galvanized steel, this project exemplifies Blumer Lehmann's commitment to innovation and environmental awareness. The salt storage facility combines traditional construction methods with state-of-the-art technology, ensuring that the winter service in the canton of Wallis can rely on a powerful and sustainable infrastructure.

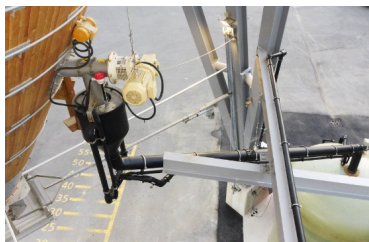
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Silos with 400 cubic volume with brine generator

Silo funnel made of larch with knocker and height-adjustable windbag as well as double segment valves with valve motor



Salt exhaust with screw and rinsing cyclone

Brine producers with control cabinet and salt deduction



Operating unit of the brine system



Roof platform with transitional walkway made of hot-dip galvanised steel