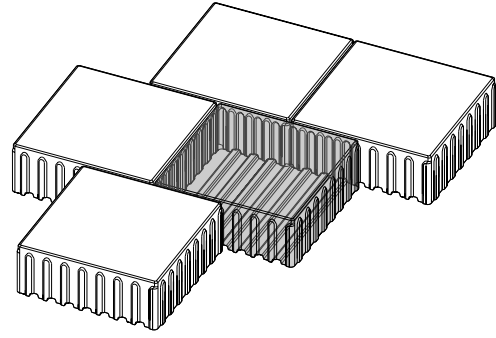


 VS 5[®]

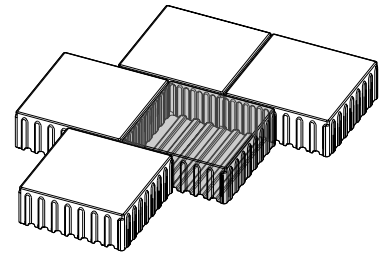


Swiss Museum of Transport,
Lucerne



Newly paved
open-air exhibition
space intended for
particularly heavy
vehicles and
special exhibitions

Swiss Museum of Transport, Lucerne



Paved areas around public amenities have to meet particularly stringent standards in terms of design and robustness, especially if such an area serves one of the most comprehensive transport and communication museums in Europe, the Swiss Museum of Transport located on the shore of picturesque Lake Lucerne.

Opened in 1959 to house a large collection of locomotives, cars, ships and aircraft, the museum rapidly became the most popular and most frequently visited museum in Switzerland. Over time a number of features were added, for example a planetarium, an IMAX cinema and the "Swissarena", a walk-in aerial image of the entire Swiss territory on a scale of 1:20,000. Over 3,000 exhibits displayed in over 20,000 m² of exhibition space can be viewed and "experienced" insofar as some areas of the museum are equipped with interactive



Interactive exhibition on Road Construction: children and adolescents are particularly welcome here.

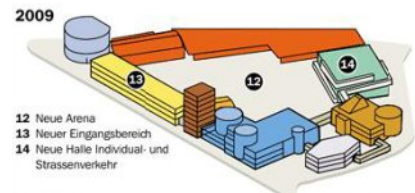
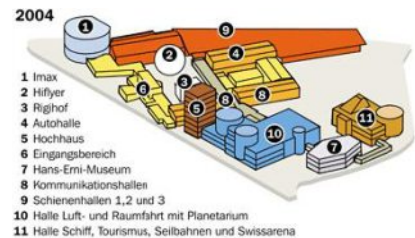


The museum with open-air space and exhibits prior to the construction measures, 2007

technology.

The main idea, the museum spokesman explains, is "to awaken and establish an interest in transport and communication in as many people as possible".

The concept seems to be a success: every year over 850,000 people visit the museum in Lucerne. Its popularity has caused it to be steadily expanded, the expansions even including its own Swiss Railways train station designed by the architects "Gigon and Guyer". A new, modern entrance building, the "FutureCom" was opened at the end of 2008. Further refurbishments and extensions were completed in time for the museum's 50th anniversary in



Construction measures, all completed on schedule by June 2009

July 2009: the new complexes replacing the now demolished first-generation buildings are grouped around a large multi-functional inner court, the "Arena". The Arena was



Mechanized laying of VS 5 pavers in June 2009; paver depth: 12.8 cm



Vintage aircraft on show on the museum's open-air exhibition space: a DC-3 of the Swissair fleet

designed to house exhibits weighing up to 90 tonnes (aircraft, locomotives, etc.) and also to serve as a space for special exhibitions featuring other types of large vehicle. The Swiss Museum of Transport was therefore insistent that the paving system to be used should be particularly robust. Not only that: the ca. 10,000 m² area was also required to match the high architectural design standard applied for the construction of the entire museum complex. Peter Müller-Schumacher, head of the Technology Division at Sebastian Müller AG, a company based in Rickenbach near Lucerne, was able to convince the Swiss Museum of Transport and its planning consultancy of



The visitors' café (foreground) and the Road Transport Pavilion with vehicles



Visitors in the museum's Arena celebrating its inauguration. In the background: the Convair CV 990 "CORONADO"

the merits of a product which seemed to have been developed specifically for this application: the VS 5 paver system developed by SF-Kooperation, an international association of concrete product manufacturers.

The unique design features of this paver system - its shear resistance on five sides, its high-level resistance to horizontal and vertical stresses and its promising combination of hi-tech design and visual appeal - were sufficient to convince the project managers that VS 5 was the right paver for their project. Given the extreme weight of the exhibits intended for the open-air exhibition space, it was agreed that the most suitable paver format would be 30 x 30 x

12.8 cm and that paved areas required to bear less weight would be more than adequately served with a paver depth of 10.8 cm.

The open-air areas were paved at high speed and the project was completed by the end of June 2009, in time for the anniversary celebrations staged on 4 July.

On completion of the project, the Swiss Museum of Transport and all others involved in this project stated that they were very satisfied with the way things had gone. Daniel Suter, the museum's director, explained: "The museum has now been made fit to meet the challenges of the future".



Its shear resistance on five sides is the key feature for the success of the VS 5 paver system.

Construction data

Repaving of open-air exhibition space at the Swiss Museum of Transport

Products used:

Ca. 8,700 m² of VS 5 interlocking pavers, 30 x 30 x 12.8 cm, grey, smooth

Ca. 500 m² of VS 5 interlocking pavers, 30 x 30 x 10.8 cm, grey, smooth

Completion date

27 June 2009

Client

Swiss Museum of Transport
Lidostrasse 5
CH-6006 Lucerne
www.verkehrshaus.ch



General contractor

Karl Steiner Holding AG
Hagenholzstrasse 60
CH-8050 Zurich
www.steiner.ch

Paver manufacturer

Sebastian Müller AG
Betonwerk und Garage
Bohler
CH-6221-Rickenbach (LU)
Telephone: +41 41 932 01 01
Telefax: +41 41 932 01 29
Website: www.sebastian-mueller-ag.ch

Product features:

Shear resistance on five sides

Matrix allowing for a combination of different paver formats

Ridges and grooves on the underside give the paver a strong grip on the bedding material

High-level resistance to horizontal and vertical stresses

Low joint ratio

No need for time-consuming fitting attempts

Attractive appearance as its functional features are invisible when the paver is laid

Ideal for heavily trafficked areas from construction class III onwards

Software available for matching curved profiles

Machine layable