



PATIENTS RELIABLY SHIELDED

A nursing station for patients receiving radiation therapy was built in a hospital in the German city of Trier. Radiation protection is provided by lead chevron rails from Röhr + Stolberg.

The object

The nursing station is located on the top floor of the Trier hospital „Klinikum Mutterhaus der Borromäerinnen“. It comprises a series of radiation-protected treatment rooms, day rooms and bedrooms. Patients stay here until the radiation is reduced to a safe level.

The products

A completely new radiation protection concept had to be developed for the creation of the station. Radiation experts from Röhr+Stolberg, based in Krefeld, were involved right from the outset in the radiation protection and structural design calculations. They also constructed and installed the supporting steel substructure as well the lead screening, which took the form of lead chevron rails and plates.

Special features

The advantage of using the top floor is that no shielding of the outside walls and ceiling is needed. Thanks to the particularly stable floor and the large amount of available space, the walls could be erected using simple dry construction methods.

The lead walls were erected using dry construction methods (Photos 1 and 2) and the floor was covered with chevron rails (3). When the construction work was finished, the walls and floor were completely clad (4).

Facts and figures:

Client:
Klinikum Mutterhaus der Borromäerinnen gGmbH, Trier

Execution:
2012 to 2013

Task:
Radiation protection cladding of walls and floors

Products:
Chevron rails 6.0+ mm, lead sheet 4.0 mm

Object size:
Approx. 42 tonnes of semi-finished lead products

Advantages of lead:
Reliable radiation protection, space-saving thanks to high density

Kontakt

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