



# UMC Groningen, Proton Therapy Centre

The University Medical Centre Groningen (UMCG) has had a proton therapy facility built in which patients with cancer from throughout the Netherlands are offered a new type of radiation treatment. The treatment centre is part of the UMC Groningen Cancer Centre, where oncology patients, both children and adults, can access all the available treatments in one place. Visser & Smit Bouw received a Design & Construct contract for the design and execution and carried out the work as part of a construction team. The installations were realised by subcontractors HOMIJ Technische Installaties in collaboration with Kropman Installatietechniek.

## The project

The centre is located on the grounds of the UMCG and consists of a clinic and two treatment rooms with an approximate area of 5,000m<sup>2</sup>, spread over two floors. Since this centre is separate from the existing hospital, it is a fully independently operating treatment centre.

## Just a little bit different

As the building is designed to be earthquake resistant; the construction has been reinforced and mass concrete walls and pre-stressed slab floors have been used, sometimes up to 4 metres thick. Nearly 10,000m<sup>3</sup> of concrete has been used to construct the treatment building. That is 60% of the external volume of the building. The floors and walls of the treatment building are designed to shield the other areas from radiation (both inside and outside the building). It is precisely because radiation always travels in a straight line, that there is no straight corridor to be found in the treatment centre.

The facades consist of prefabricated timber frame walls covered with bricks and aluminium. To help camouflage the technical area on the roof, a plastic mesh construction has been stretched over it.

## Learn more?

✉ [info@visserensmitbouw.nl](mailto:info@visserensmitbouw.nl)

🔗 <https://www.umcgroningentpc.nl>

📞 +31 10 313 10 00



## Facts and figures

### Location

Groningen

### Client

PTCG bv

### Status

Completed

### Architect

Adviesburo Van der Plas / AAS Architecten

### Constructional consultant

abtWassenaar, previously Wassenaar  
Ingenieurs