

## Railway signal tower - Courtray

### Project Details

#### Activities

Buildings  
Industrial & logistics  
Civil Engineering  
Railway infrastructure & stations

#### Contractors

Franki Construct

#### location

Doornikselaan  
8500 Kortrijk Belgium  
West-Vlaanderen BE

#### Client

Eurostation

#### End User

Infrabel

#### Engineering Office

Eurostation

#### Construction period

1 year 9 months

#### Start work

03-2011

#### End of work

12-2012



Construction of a signalling centre for the Belgian railways and demolition of an existing post office building. The complete building forms a Faraday cage to protect the railway signalling. This was accomplished by earthing 4,100 m<sup>2</sup> of concrete walls and interconnecting all concrete reinforcement.

- Foundation: 134 screw piles
- Earthworks: 3,000 m<sup>3</sup>
- Structure: Reinforced concrete: 2,510 m<sup>3</sup> concrete and 215 tonnes of rebar
- Sectional steel: 50 tonnes
- External wall cladding: 620 m<sup>2</sup> aluminium panels, 2,000 m<sup>2</sup> stone panels, 155 m<sup>2</sup> glass curtain walling.
- Heating + Cooling: air critical premises by heating with convectors
- climate control boxes with air reversal on heat
- ventilation of premises with high-voltage air groups
- control via PRBA's
- lightning protection of structures and people
- lightning protection of electrical and electronic systems
- ICT equipment (data cabinets, cabling, fire alarm cables + + access control and security in fallow)
- lighting, control by KNX KNX DAL / gateways
- power supply through assured power: power over infrabel power distribution and power over the public grid via separate routes

- electric lift

## Franki Construct



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Since 1998 Franki Construct has been part of Willemen Groep, the largest family construction group in Belgium.