



Northern Piling Ltd

# Top Golf, Glasgow Fence Tower & Sprinkler Tank Commercial Development Case Study



## Project Overview

Client: Luddon  
 Engineer: Will Rudd  
 Value: £230k  
 Description of works: Design, supply & install precast concrete piles to form foundations.

## TECHNICAL DETAILS

Pile Type: Precast Concrete  
 Pile Length: 16m - 24m  
 Pile Testing: 66no. Dynamic & 3no. Static Load Testing  
 No. of piles: 266no.  
 Pile Size: 300mm sq  
 Working Load: 600kN Compressive + 300kN Tension

NPL were contracted to design, supply and install over 250 precast concrete piles for the Fence Tower Base & Sprinkler Tank for the new Top Golf in Rutherglen. The Fence towers will be 52m high, bringing high shear and tension loads into consideration.

Specialist piles with additional steel reinforcement were used for the job due to the high tension loads of 300kN and the scale of the structure which the piles would be supporting. The increased reinforcement within the piles was determined to be sufficient for the specified shear loading, and the diameter of the pile was suitably sized to handle the compressive load.

The project was completed over 2 phases, taking a total of 3 weeks to complete, 1 weeks ahead of program. All 13no. dynamic tests and 1no. static test were carried out during this time.

