



TEMPLATE FOR PREPARING AN ENTRY INTO THE DATABASE OF TIMBER CONSTRUCTIONS

NAME: TIMBER EIFFEL TOWER

Location: Třebíč
Country: Czech Republic
Year of construction: 2008
Start/ completion: 12/2007 – 01/2008
New construction: Model of the Eiffel tower made from timber trusses
Building type: Exhibition stand
Setting: Urban
Total costs (in EUR): 4.000 EUR



The “blue” Eiffel tower at building fair “Roofs 2009” in Prague



Technical information

Dimensions: square basis 5,0 x 5,0 m
Height: 8,0 m
Materials used: timber trusses with punched metal plate fasteners and steel plates connecting the assembly blocks
Species of wood: spruce

General information

The Eiffel tower is a world-know truss structure built for the Universal Exhibition in 1889. Company Vazníky D.N.K. s.r.o., a new Czech producer of timber trusses, came with an idea to present the company at building fairs with the model of the Eiffel tower made from timber trusses with punched metal plate fasteners. The trusses are painted blue, which is the color of impregnation used for trusses produced by the company. There is a rotating company advertisement on the top of the tower. The structure consists of 44 timber trusses of 4 different types, 680 kg of timber cut-pieces and 97 kg of punched metal plate fasteners. The assembly blocks are connected with steel plates and bolts. The whole tower can be assembled in 4 hours without a use of crane.



Assembly of the tower at Prague Fair grounds



Economic and environmental aspects

The goal of this project was at the first to present the company Vazníky D.N.K. s.r.o., to increase the popularity of timber trusses with punched metal plate fasteners in general and to show that they can be used for virtually anything. The tower was built using the Czech technology for producers of timber trusses Bova-Nail and from high-quality timber supplied by local saw-mills.



Production of the tower trusses in a new fabrication hall of the company

Execution

Customer and Main producer: Vazníky D.N.K. s.r.o., Třebíč, www.drevene-vazniky.info