

EUREKA PROJECT E!341 - EUROCARE FOUNDATION

1. General description

Project	E! 341 - EUROCARE FOUNDATION	Status	Finished - 03-JAN-1995
Title	Chemical Foundation Wood Preservation In Permeable, Air Exposed Soils		
Class	Sub-Umbrella	Technological area	Environment
Start date	01-MAY-1989	End date	01-SEP-1994
Duration	64 months	Total cost	0.14 Meuro
Partner sought	No		
Summary	Chemical Methods For Preservation Of Timber Constructions Where There Are Problems In Raising The Water To Its Earlier Level		

Budget and duration

Phase	Budget(Meuro)	Duration (Months)
Definition phase	0	12
Development stage	0	12
Pre-Production stage	0	27
Total	0.14	64

Member contribution

Member	Contribution	Position	Since
Sweden	78.00%	Notified Finished	03-JAN-1995
Denmark	22.00%	Notified Finished	03-JAN-1995

Participants

Company	Country	Type	Role
Kjessler & Mannerstraale Byggteknik Ab	Sweden	Large company	Main
N. & R. Consultants A/S	Denmark	SME	Partner

2. Project outline

Project description

Grids and piles of timber used in old building areas were originally meant to stay below the ground water edge. Because of ground water lowering, the foundation timber will be exposed to air and begin to rot. This project deals with the preservation of such timber constructions where there are problems in returning the water to its high earlier level. The preservation will be done by chemical methods.

Technological development envisaged

Old building areas with or without cultural interest, exposed to ground water lowering and rotting foundation wood can, if treatment is made early, be preserved at a lower total cost than if underpinning must be done. The preservation method is very careful of neighbouring buildings and is accepted by antiquarians.

Note under timescale:

Concluding test starts in Autumn 1992.

Markets application and exploitation

If there are positive results, commercial exploration in the European market. Utilisation of the method is of interest all over the world. Further development of licenced firms working in national markets.

Project codes

BSI

RBJ.D	building conservation
RNG	building systems
RXH	construction materials
TIP	deactivating agents
VED/VEF	decontamination
WC	wood (timber)

NACE

4521	General construction of buildings and civil engineering works
------	---

3. Main participant

Company **Kjessler & Mannerstraale Byggteknik Ab**
Rullagergatan, 6
415 26 Goeteborg
Sweden

Tel +46 31 72 72 500
Fax +46 31 72 72 501

Contact **Mr. Wilhelm Delfs**
Regionchef Specialteknik

Tel +46 31 72 72 660
Fax +46 31 72 72 501

wilhelm.delfs@km.se

Organisation type Large company
Participant role Main

Contribution to project

Expertise

A consulting firm founded in 1934, it has international experience in the building sector. It has a workforce of approximately 700, subsidiary companies included. Wilhelm Delfs is a Senior Consultant, dealing since 1982 with foundation problems and especially foundation restoration of old buildings. He is the EU 341 Project Manager. Allan Jerbo Ph.D., in quaternary geology since 1965, has more than 30 years of research in organic decay and its consequences on building material, etc. Developer of the Jerbor method to protect wood. Head of JERBOL AB (joined to KM AB). The JERBOL laboratory will perform the laboratory tests.

4. Partner

Company **N. & R. Consultants A/S**
Sortemosevej, 2
3450 Alleroed
Denmark

Tel +45 48 14 00 66
Fax +45 48 14 00 33

Contact **Civ. Eng. Carl Birck**
Division Manager

Tel +45 48 14 00 66
Fax +45 48 14 00 33

Organisation type	SME
Participant role	Partner

Contribution to project

Expertise

Dealing since 1956 with national and international civil engineering consultancy, it has a workforce of 280, including subsidiary companies. Carl Birck, an experienced geotechnical and foundation engineer since 1970, will run the full-scale investigations and measurements in Copenhagen.