

Wakobato

Not Wacko But Polyurea !

Karl Gerniers



Content



- 3DFactory - the company
- What can polyurea bring for craftsmen
- Wakobato
- Other polyurea applications
- Visit/demonstration
- Conclusions



Three Dee Factory



- Started in 1995 as a One Man Company
- Works with ±20 other SMEs with their own specific expertise as needed
- Activities
 - Any design that cannot be done with wood or steel
 - From design to execution



Three Dee Factory



Initially mainly using polyester



Three Dee Factory



Polyurea is a new material for me



But I am a
believer now !

Polyurea and craftsmen



- Targeted people – architects, designers, artists
- Advantages
 - Fast process – from design to sculpting
 - Freedom of design with details and esthetics
- Multiple application areas
 - Garden furniture
 - Children's playgrounds
 - Original shapes



Polyurea and craftsmen

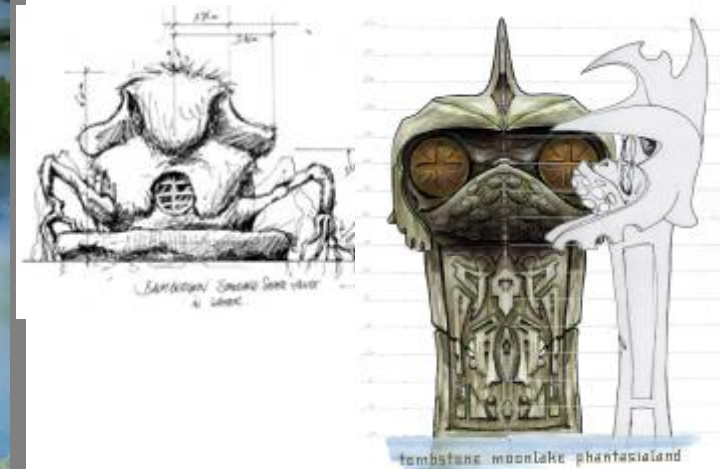
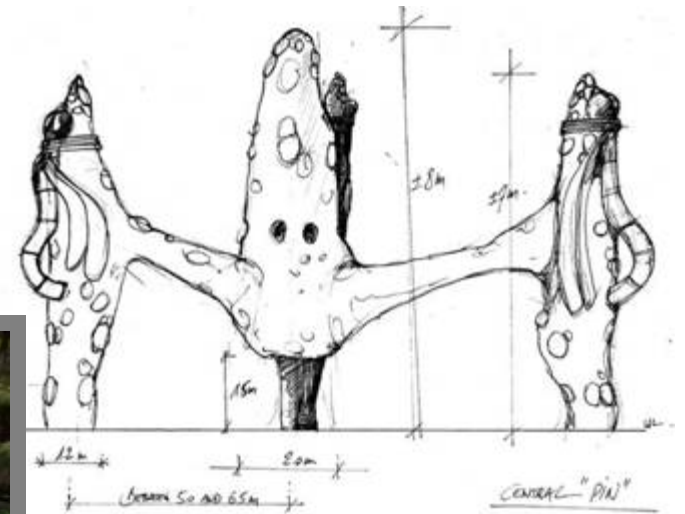


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Project Definition

- Starts with a scale model
- Drawings



1st Proposal

- Glass fibre reinforced polyester
 - A proven technology over the years
- But ...
 - Huge number of parts to be produced
 - Speed of manufacturing created a time constraint
 - The stability in the water
- End result
 - Total project cost was too high

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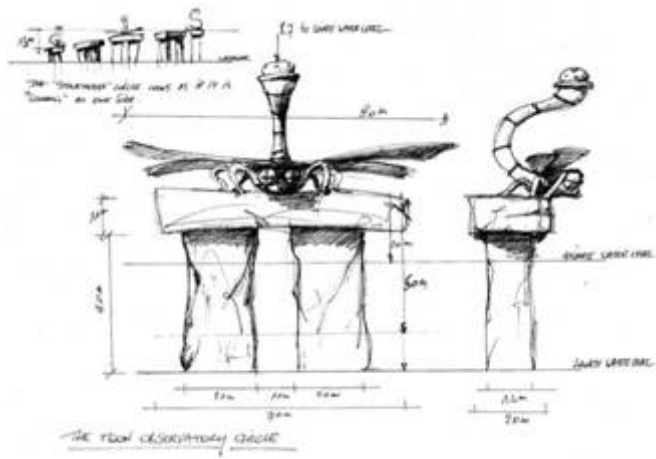


New idea using a 'new technology' called **POLYUREA**

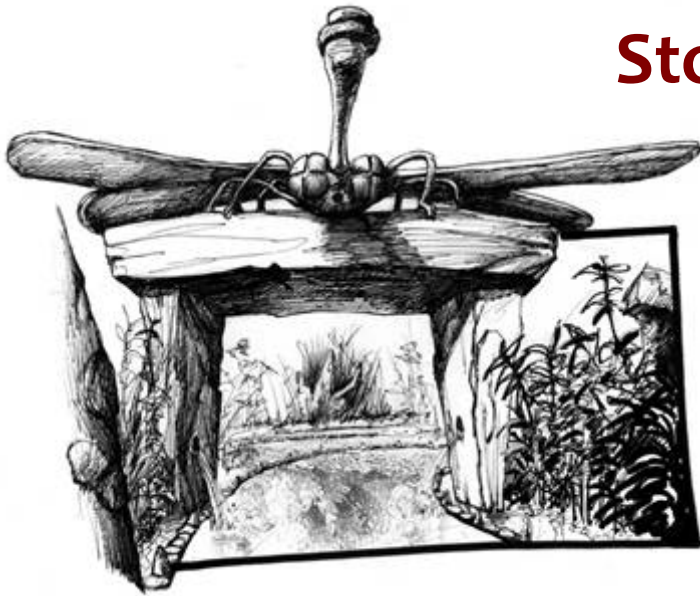
- Approach
 - Build the prototype in EPS
 - Sprayed the prototype at Flexguard
 - Submit the prototype to Phantasialand
 - Proof the performance
- Result
 - Pass the evaluation testing
 - Meet the budget



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Stonehedge



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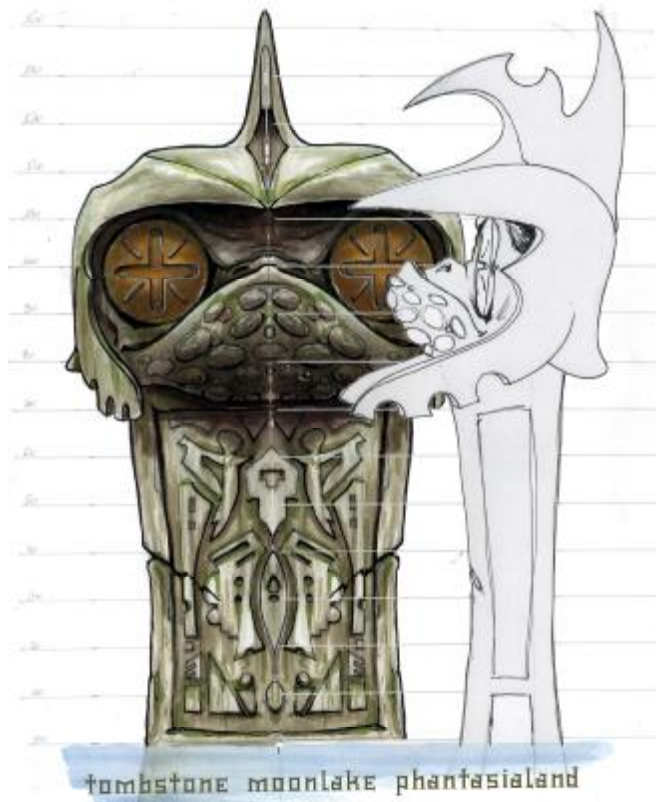


Frog guardian



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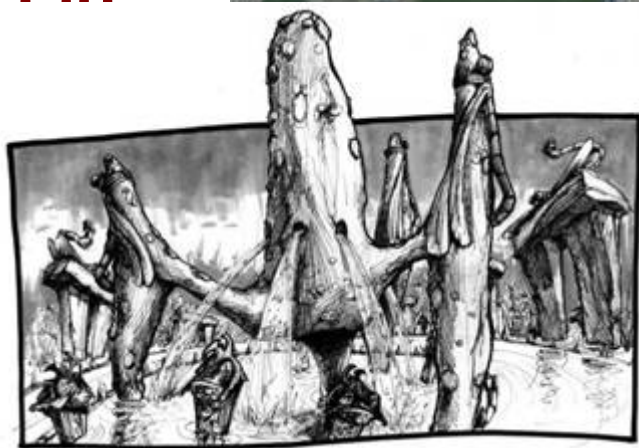
Tombstone



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Pin



Wakobato - Tombstone



Construction

of them !

FINISH SYSTEM

Cut from EPS

Primer

Patina

Clear finish

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The size !



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Installation in the lake

Other polyurea applications ?



- Roof coatings
- Water attractions
- Waterproofing reservoirs/lakes
- Landscaping

- In case of emergencies
 - quick repair !
 - short down times !

Showcase / demonstration



- At the demonstration area the build up will be displayed step by step
- Demonstration – totally different project
 - How to make furniture using polyurea
 - Approach/details on procedure
- Afterwards a visit to the Wakobato attraction is planned

Conclusions



- **Polyurea**
 - Design flexibility
 - Fast curing
 - Excellent properties
- In short ... **a dream product to work with**
 - Creating new job opportunities
 - Giving more freedom in solution development

Questions ?



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