TITAN WOOD

The commercialisation of wood acetylation and the market challenges involved

Bert Kattenbroek

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Corporate Background

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- Titan Wood Limited was formed on April 17th 2003 by Accsys Technologies PLC
- From 2003 – 2006 technology development and design of a large scale production plant
- 2006 – 2007 construction of the plant
- 2007 production commenced

- This is the world's first plant producing acetylated wood on large scale at a commercially viable cost

Acetylation process

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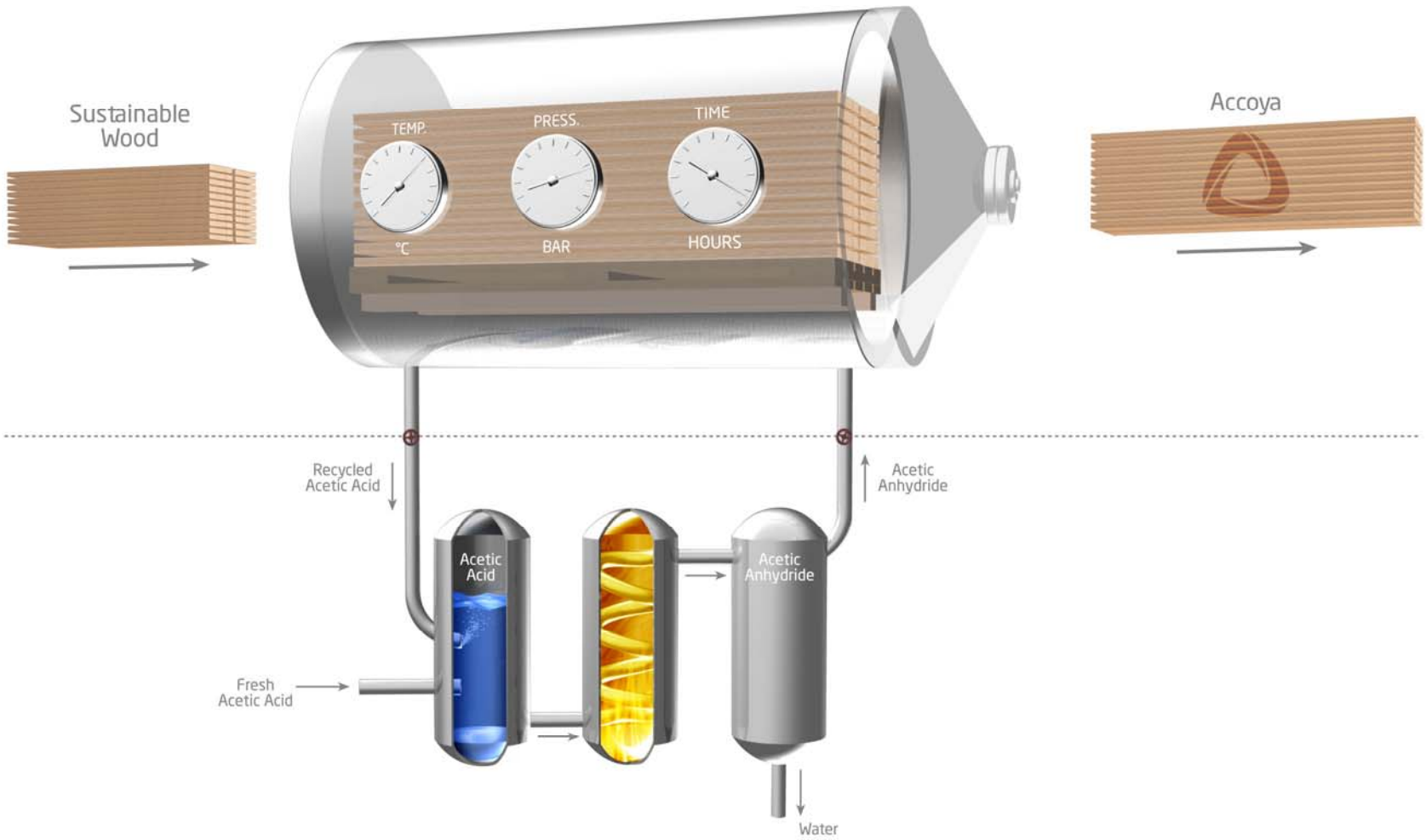

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Time frame for commercialisation

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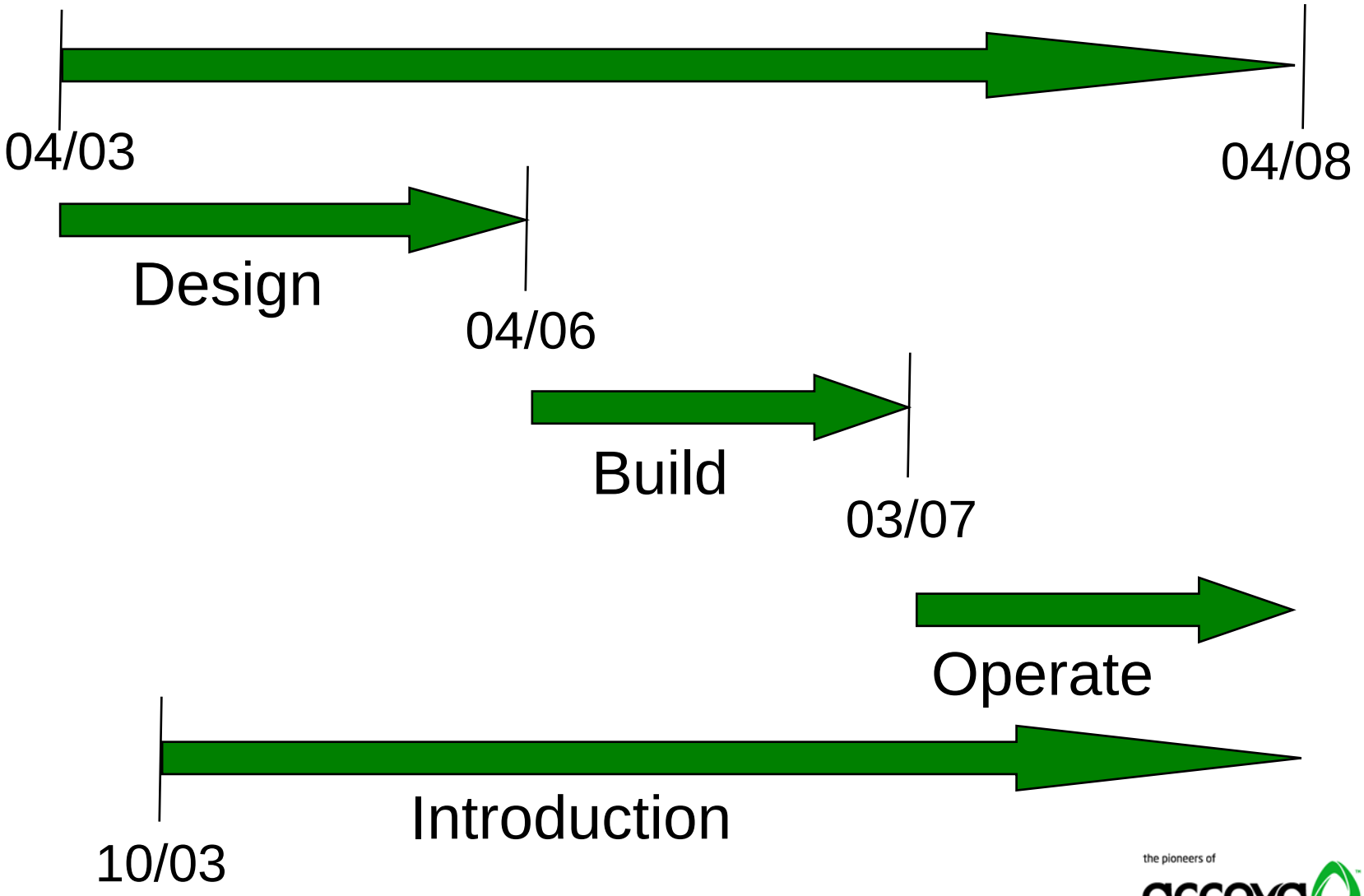

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Path to success

- Certification of process
- Certification of product

No European standard for wood modification!

Acetylation is ‘new in the industry’

Example; durability

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Quality assured

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Foto: Titan Wood

Foto: Titan Wood

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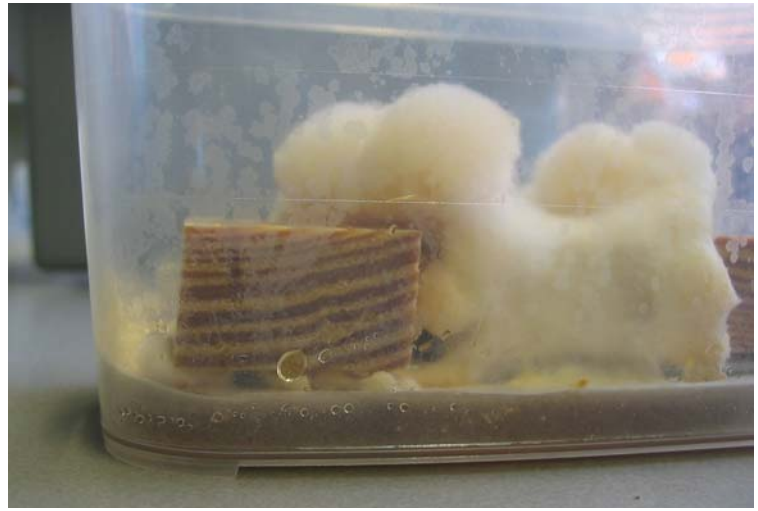
Durability

- 1800 samples in EN 113
- Low up to high acetyl



- What acetyl % is needed to reach durability class 1 with most aggressive fungi

- Same for ENV 807

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Resistentie klasse 1

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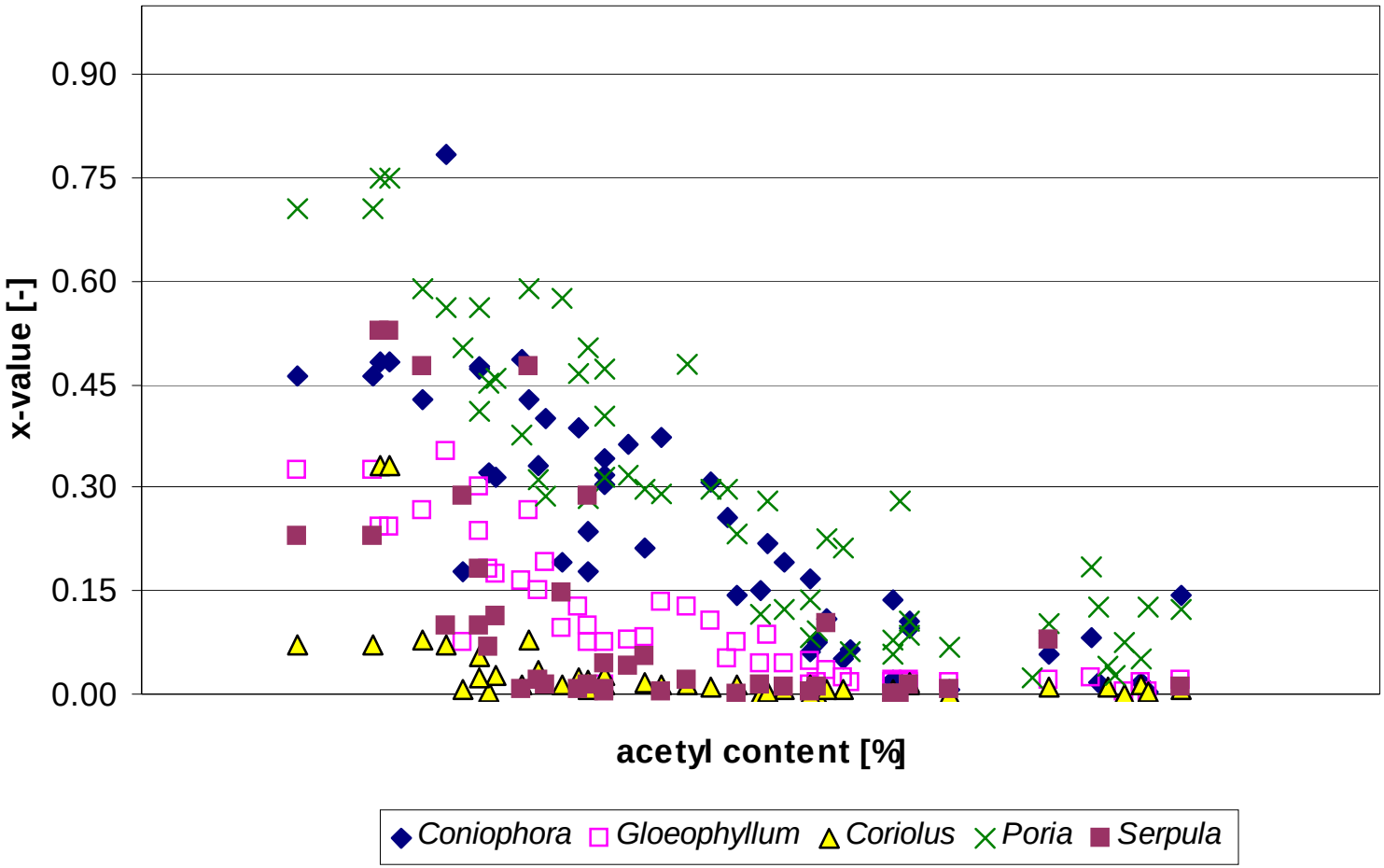

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Resistentie klasse 1

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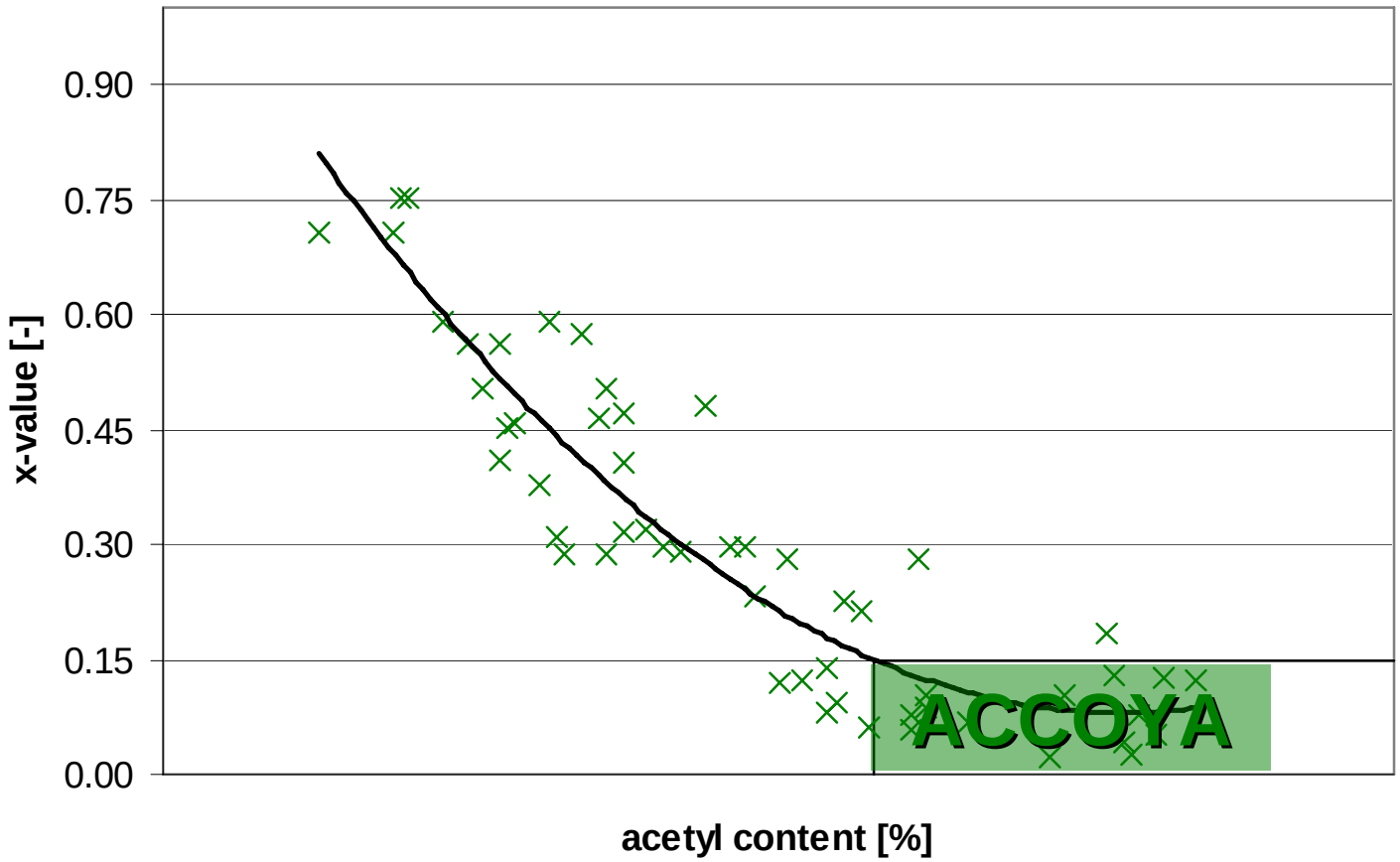

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Accoya™ – meranti (red)

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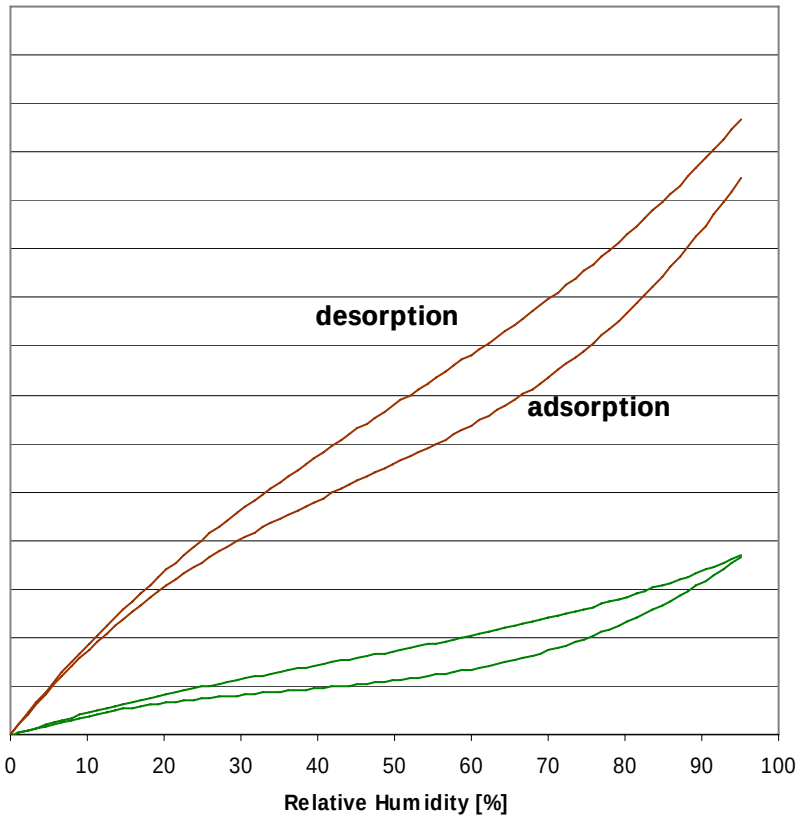

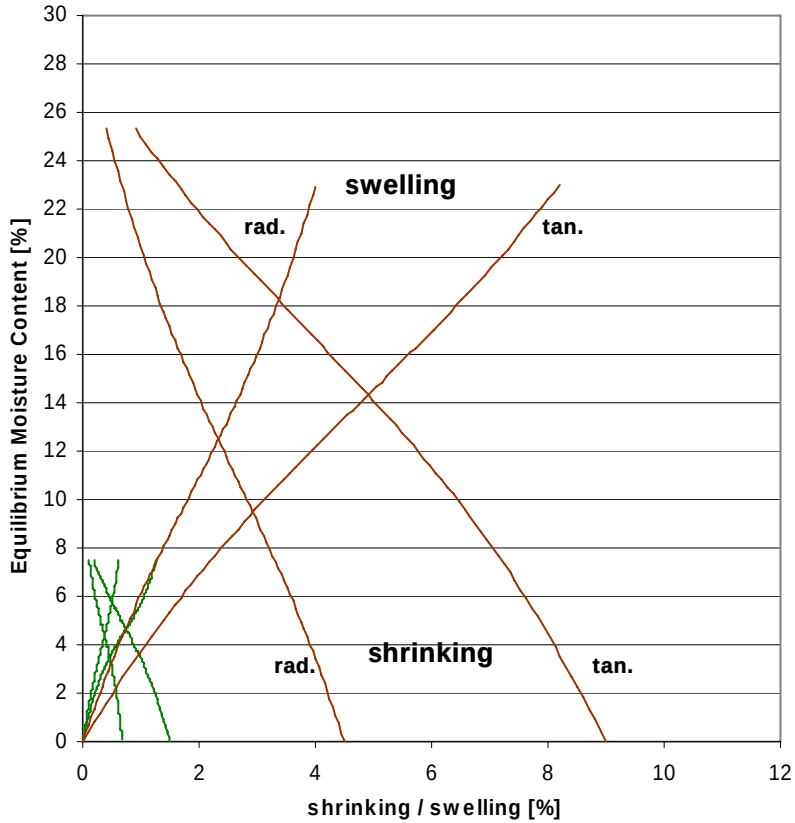

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UV stability

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Path to success

- Have small core group of customers
- Involvement of branche related companies such as coating and glue producers
- Run testprograms upfront commercial stage
- Work together to optimize end-quality
- Guidance and support
- Monitor building sides
- Evaluate projects with the parties involved

Decking

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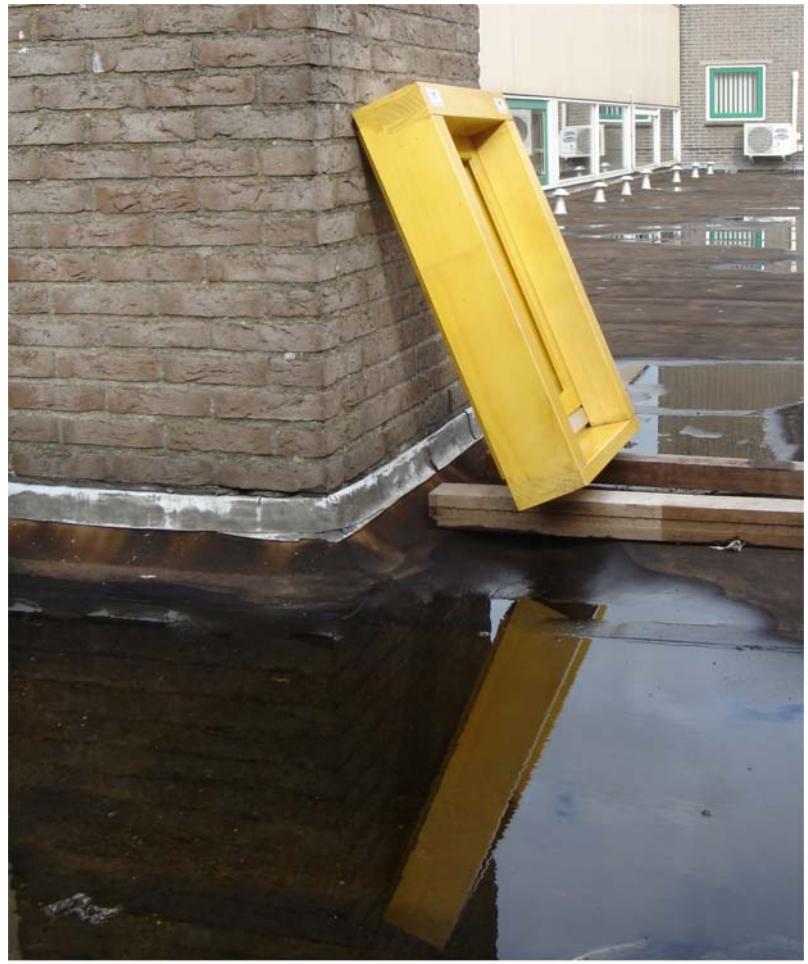
Windows

Helwig, Geleen



Hoornse TimmerFabriek

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Cladding

Constructions

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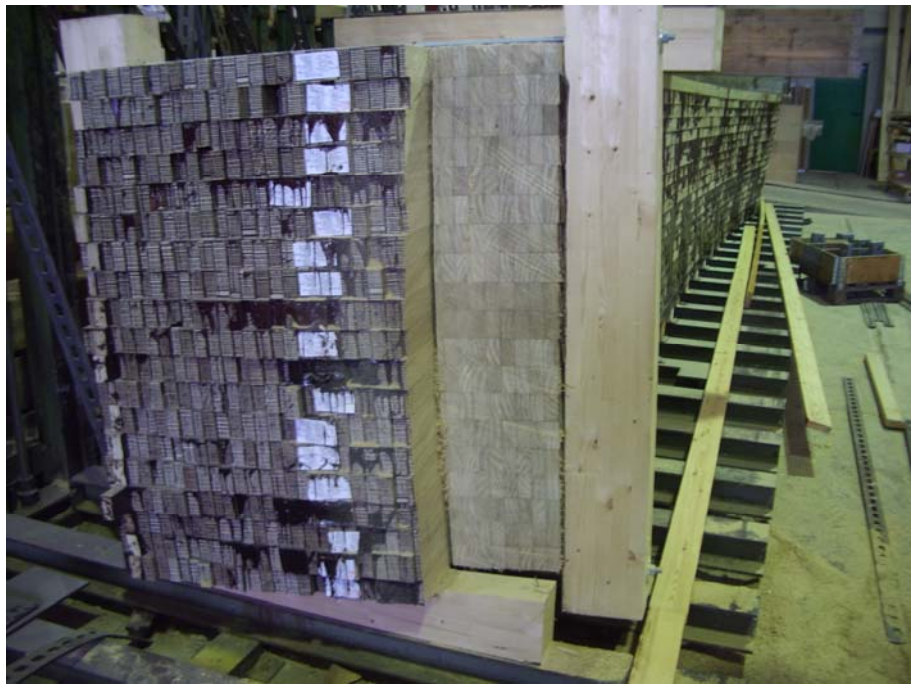

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Machining, Gluing, Fabricating

Foto: Titan Wood

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Information

Acetylation plant

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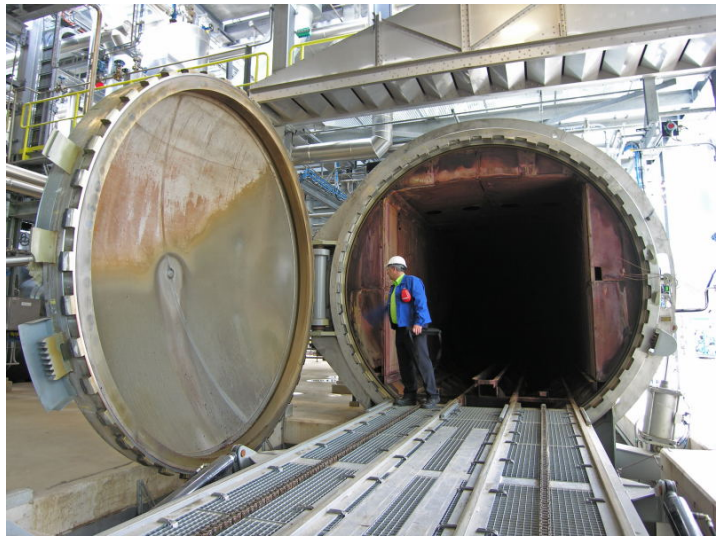

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Projects

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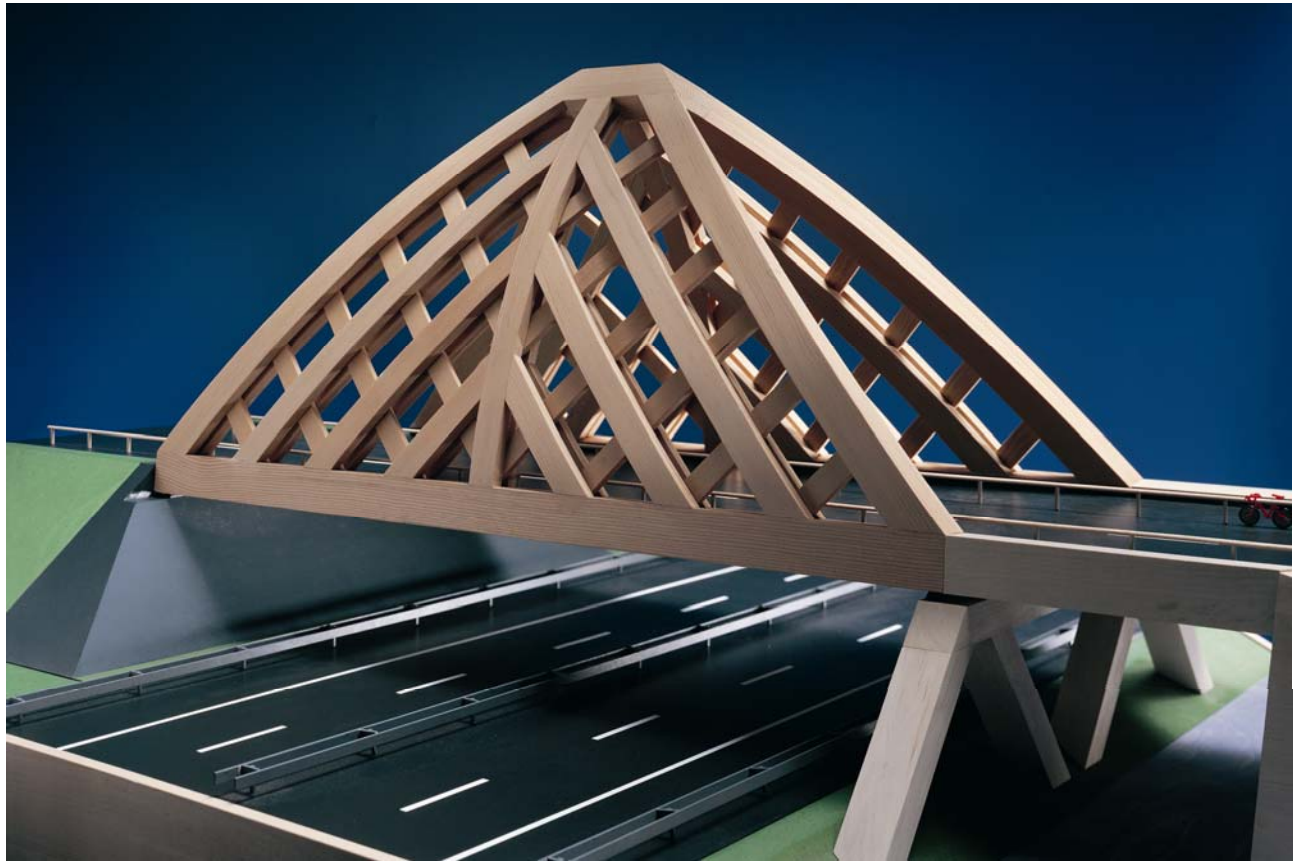

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Projects

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Projects

- Follow projects
- Monitor them during building period
- Have evaluation sessions with all parties involved
- Work consistently to improve end-quality

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Projects

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Projects

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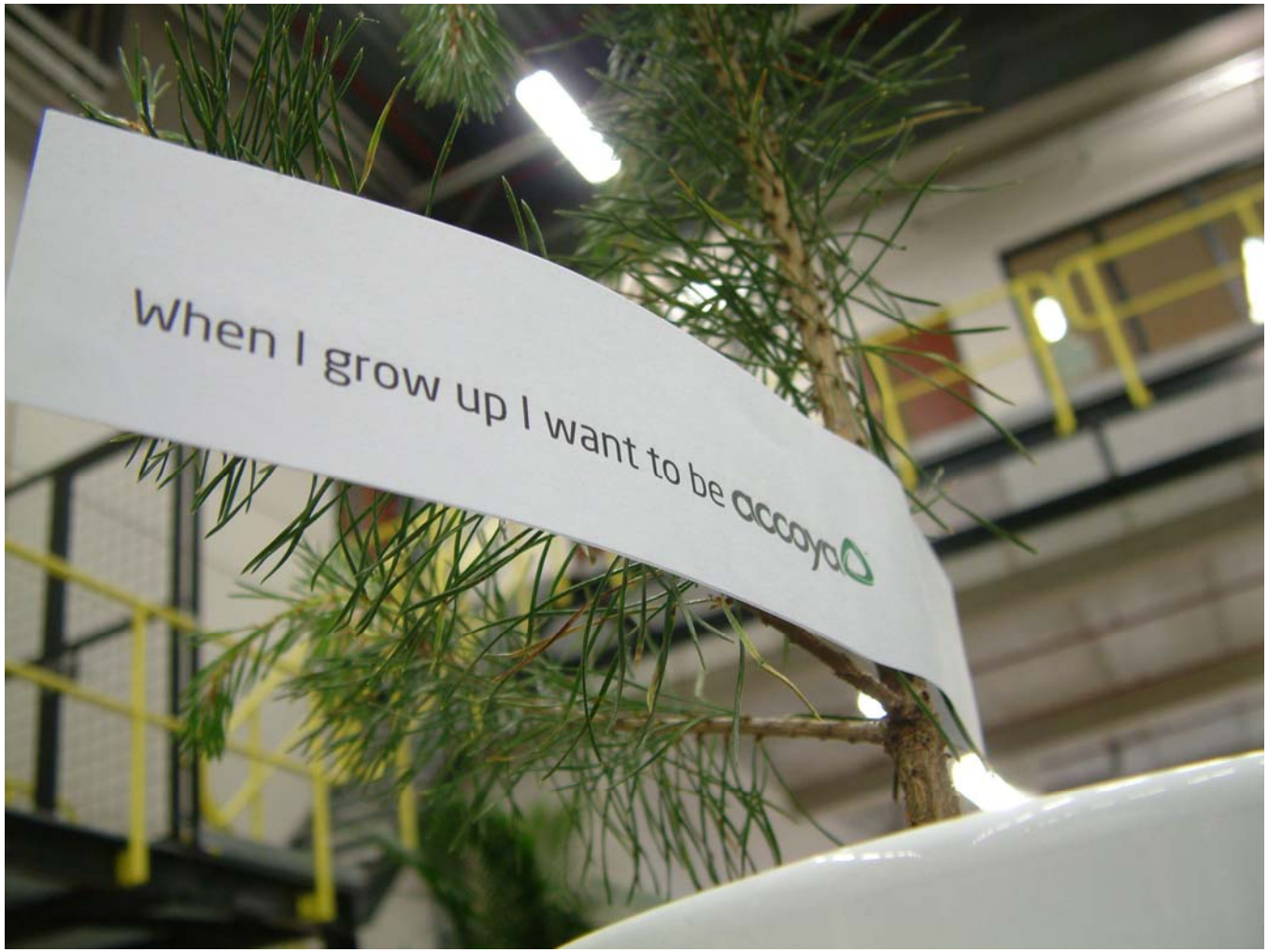
Thank you for your attention



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