



KOMO[®] product certificate

Semi-manufactured product

SKH

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MODIFIED TIMBER ACCOYA[®] WOOD

Number: 33058/10
Issued: 01-12-2010
Replaces: 33058/10 (13-07-'10)

Producer

Accsys Technologies
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E-mail: info@accsysplc.com
Website: <http://www.accsysplc.com>

Factory

Westervoortsedijk 71
6827 AV ARNHEM

SKH declaration

This product certificate has been issued by SKH on the basis of BRL 0605 'Modified timber' dd. 31-01-2003, in accordance with the SKH Regulations for Certification.

SKH declares that there is a legitimate confidence that the modified timber manufactured by the producer continuously complies with the technical specifications laid down in this product certificate, provided that the modified timber has been marked with the KOMO[®]-mark depicted hereunder, in a way as indicated in this product certificate.

For SKH



drs. H.J.O. van Doorn, director

Users of this product certificate are advised to enquire at SKH whether this document is still valid.

This product certificate consists of 3 pages.

The Dutch version shall be consulted in case of doubt.



The following has
been assessed:
quality system
product
Periodic control

MODIFIED TIMBER ACCOYA[®] WOOD

1 PRODUCT SPECIFICATION

1.1 Description of product

Accoya[®] wood is based on wood acetylation of Radiata pine (*Pinus radiata D. Don*).

Compared to untreated material the dimensional stability, the UV-stability and the natural durability is improved without addition of toxic material.

The performances in respect of the properties laid down in BRL 0605 "Modified timber" are laid down in section 2.1 "Technical specification".

2 TECHNICAL SPECIFICATION

2.1 Durability

The durability of Accoya[®] wood complies at least with the requirements for durability *class 1*, tested in accordance with EN 350-1. Accoya[®] wood can be used in use classes 1, 2, 3 and 4 as defined in EN 335-1.

2.2 Timber moisture content

Accoya[®] wood is supplied in dry condition (moisture content $<8\% m/m$).

2.3 Equilibrium moisture content

The average equilibrium moisture content of Accoya[®] wood at a relative humidity of 65%, 80% and 90% and a temperature of 20°C is respectively 3.3%, 4.1 and 7.5% in absorption.

2.4 Dimensional stability

The average swelling from bone dry condition to water saturation in radial and tangential direction of Accoya[®] wood, when absorbing moisture, is respectively 0.7% and 1.5%.

2.5 Glue ability

In case of glueing Accoya[®] wood it shall be done according to the instructions laid down in the manufacturers 'Accoya[®] wood information Guide'.

2.6 Finishing

In case of finishing Accoya[®] wood it shall be done according to the instructions laid down in the manufacturers 'Accoya[®] wood information Guide'.

2.7 Mechanical properties

The average bending strength (MOR) and average modulus of elasticity (MOE) are not negatively effected by the modification process compared with untreated Radiata pine.

2.8 Janka Hardness

The average Janka Hardness of Accoya[®] wood is radial and tangential increased by 50% compared to untreated Radiata pine. The end grain Janka Hardness is increased by 80%.

2.9 Impact bending strength

The average impact bending strength of Accoya[®] wood is equal compared to untreated Radiata pine.

2.10 Fire behaviour

The quality declaration does not express an opinion about the fire behaviour.

2.11 Emission of harmful materials

Waste wood can be processed as untreated timber.

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3 MARKING

Accoya[®] wood shall be marked per package with the KOMO[®]-mark.

The execution of this mark is as follows:

- KOMO[®] trademark or logo;
- no. **33058**;
- durability class 1 according to EN 350-1;
- unique production number;
- suitable for ground and fresh water contact, use class 4, colour Green, code "W".



Location of the mark: clearly visible on each package.

4 SUGGESTIONS FOR THE USER

4.1 On delivery of the Accoya[®] wood inspect whether:

- the products comply with the contract of sale;
- the mark and the manner of marking are correct;
- the products do not show any visible defects due to transport or similar causes.

If the products are rejected on the basis of the above, the user should contact:

Accsys Technologies

and if desirable:

The certification-body SKH
Office building 'Het Cambium',
Nieuwe Kanaal 9c, 6709 PA Wageningen, the Netherlands
P.O. Box 159, 6700 AD Wageningen, the Netherlands
Telephone: +31 (0) 317 45 34 25 E-mail: mail@skh.org
Fax: +31 (0) 317 41 26 10 Website: <http://www.skh.org>

4.2 Processing

The use of Accoya[®] wood shall be done according to the instructions and technical advice laid down in the manufacturers 'Accoya[®] wood information Guide'.

4.3 Product certificate

It is the duty of the producer to make sure that the buyer receives a copy of the complete product certificate.

4.4 Applications and use

Transport, storage and deployment shall be effected in accordance with the working instructions included in this product certificate.

4.5 Period of validity

Consult the SKH website <http://www.skh.org> to verify whether the product certificate is still valid.