

General

This modification sheet correlates to the Assessment Directive (AD) 2902 "Optimised timber for non-load bearing applications" dated 07-05-2014 and shall be used by the certification bodies, which are recognised for this by the Council for Accreditation and which have a licence agreement for this purpose with the KOMO Foundation, when processing an application for, or the maintenance of, a KOMO product certificate.

This modification sheet was:

- Adopted by the SKH Board of Experts on 04-10-2019.
- Accepted by the KOMO Quality and Assessment Board on 29-10-2019.

Description of the modification

The requirements with regard to the composition of optimised timber have changed in the AD.

The following text must be modified in the AD:

Replace the text of paragraph 1.1; *This Assessment Directive replaces valid until 07-05-2015.* with the following text in this modification sheet:

This modification sheet is valid from 29-10-2019 and shall be applied in correlation with the accompanying Assessment Directive of 07-05-2014. Until 29-12-2019 at the very latest, the KOMO product certificates shall be issued on the basis of the Assessment Directive excl. modification sheet. The KOMO product certificates issued on the basis of that version shall lose their validity in any case on 29-10-2020.

General

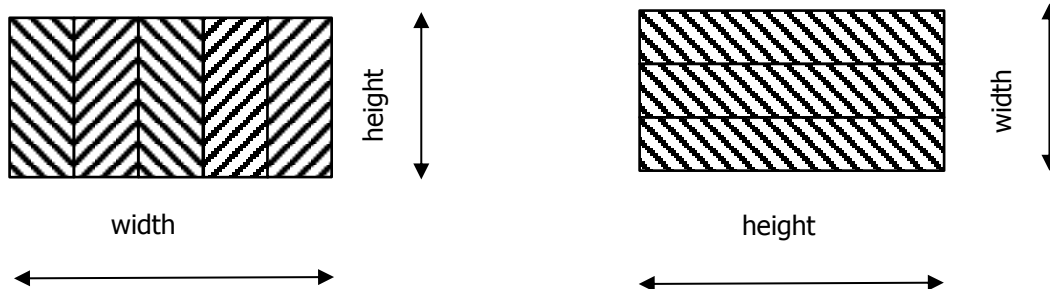
In the entire document, the reference to the NEN-EN 45011 shall lapse. This accreditation standard is not valid upon the publication of this modification sheet and is replaced by the NEN-EN-ISO/IEC 17065.

Add to Section 2 "TERMS AND DEFINITIONS"

2.10 Width and height of optimised timber

The definition of width and height of the optimised timber as used in this AD is presented below.

Timber for window frames, windows and doors Timber for windows and doors



Replace par. 4.2.4 "composition of optimised timber" with the paragraph in this modification sheet

4.2.4 Composition of optimised timber

4.2.4.1 Timber for window frames

The glue joints in the optimised timber for window frames may only be applied parallel to the glass panel. A combination of glue joints that are parallel and perpendicular to the glass panel in the optimised timber is not permitted (the in-between lamellae of the optimised timber may not be composed of several parts)

Regardless of the number of lamellae, the composition must always be symmetrical.

The outer lamellae must be of the same thickness while the inner lamellae may deviate from this measurement, as long as they are of the same thickness with the application of several inner lamellae.

In derogation of the above, a non-symmetrical composition may be applied if it has been demonstrated that the composition concerned meets the requirements for durability of the glue joints (paragraphs 4.2.5 and 4.3.5 of this AD).

In observance of the maximum lamella thickness under paragraph 4.1.1, the optimised timber for window frames must be composed of three or more lamellae.

4.2.4.2 Timber for windows and outside doors

The glue joints in the optimised timber for windows and outside doors may be applied both parallel and perpendicular to the glass panel. The in-between lamellae of optimised timber for windows and doors with glue joints that are parallel to the glass panel may be composed of several parts as long as the following conditions are met (also see Figure 1)

- For window and door timber up to 120 mm in height, the in-between lamella may only be composed of a maximum of 2 parts
- For window and door timber of 120 mm in height and above, the in-between lamella may only be composed of a maximum of 3 parts
- The minimal height of the lamella is 40 mm

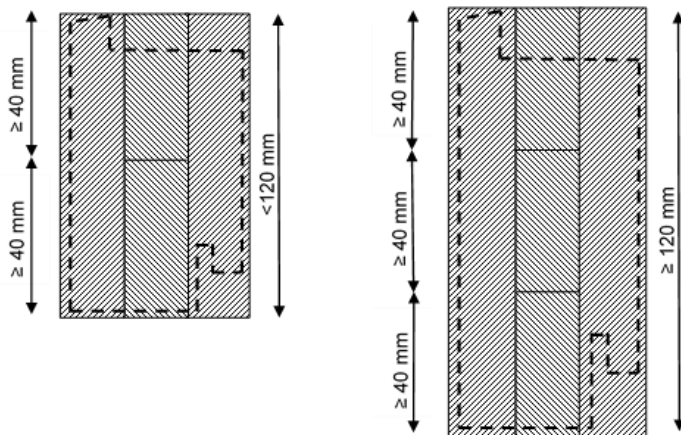


Figure 1: requirements and dimensions of window and door timber and lamella measurements with composition of in-between lamellae of several parts

The in-between lamellae of optimised timber for windows and doors with glue joints that are parallel to the glass panel may not be composed of several parts (also see Figure 2)

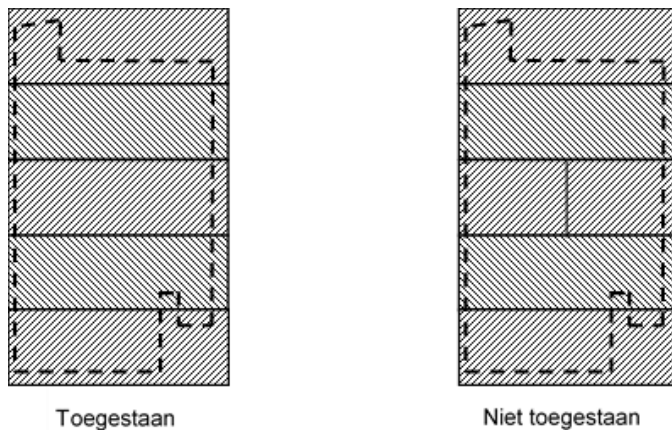


Figure 2: optimised timber for windows and doors with glue joints parallel to the glass panel (left: allowed; right: not allowed)

Regardless of the number of lamellae, the composition must always be symmetrical.

The outer lamellae must be of the same thickness while the inner lamellae may deviate from this measurement, as long as they are of the same thickness with the application of several inner lamellae.

In derogation of the above, a non-symmetrical composition may be applied if it has been demonstrated that the composition concerned meets the requirements for durability of the glue line (paragraphs 4.2.5 and 4.3.5 of this AD).

For the application in frame posts and sills of outside doors and windows, optimised timber with glue joints parallel to the glass panel up to a maximum width of 70 mm may only be composed of two lamellae unless:

- *the optimised timber is composed of lamellae of equal thickness.*
- *In case of soft wood, the optimised timber is composed of quarter (rift) sawn timber (for hard wood, no requirements are set for the orientation of the growth rings)*

Add to Section 10 "LABELS"

as well as the information:

- *the class in which the optimised timber can be applied (B or BGVT);*
- *the addition:*
 - *KRD: for optimised timber suitable for window frames, windows and doors*
 - *RD: for optimised timber suitable for windows and doors*
- *the production week*.*

Replace Section 13 "LIST OF STATED DOCUMENTS" with the list below

NEN-EN 5466:2010	Quality requirements for timber - External characteristics of European softwood
NEN-EN 13183-1: 2002	Moisture content of a piece of sawn timber - Part 1: Determination by oven dry method
NEN-EN 13183-2:2002/C1:2017	Moisture content of a piece of sawn timber - Part 2: Estimation by electrical resistance method
NEN-EN-ISO/IEC 17020	Conformity assessment - Requirements for the operation of various types of bodies performing inspection
NEN-EN-ISO/IEC 17021	Conformity assessment - Requirements for bodies providing audit and certification of management systems
NEN-EN-ISO/IEC 17025	General requirements for the competence of testing and calibration laboratories
NEN-EN-ISO/IEC 17065	Conformity assessment - Requirements for bodies certifying products, processes and services
NEN-EN-ISO 9001:2015	Quality management systems – Requirements
AD 0605: 2018	Modified timber, SKH edition
AD 1704-02: 2012	Finger-jointed wood for non-load bearing applications, SKH edition
AD 2339: 2012	Adhesives for non-load bearing applications, SKH edition
SKH Publication 97-04	Assessment basis 'Timber Species for Use in Joinery; Requirements and Methods of Determination'
SKH Publication 99-05	Approved timber species to be used in wooden facade elements (window frames, windows and doors)
SKH Publication 13-02	Approved modified timber species according to the AD 0605 to be used in wooden façade elements (window frames, windows and doors)
KVT	Quality of wood facade elements

Remove ANNEX 1 "MODEL KOMO® PRODUCT CERTIFICATE"