

LICENSED SKH BA-CONNECTION DOCUMENT

BUILDING ELEMENTS ASSEMBLED WITH WOOD-BASED PANELS

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Number: 32762/18-BB**Issued:** 01-06-2018**Valid till:** 09-12-2022**Supersedes:** 32762/17-BB**Declaration of SKH**

This BA-connection document is issued on the basis of SKH Directive Connection Building Act 7517 'Building elements assembled with wood-based panels' dd. 13-07-2016, in accordance with the SKH Regulations for Certification.

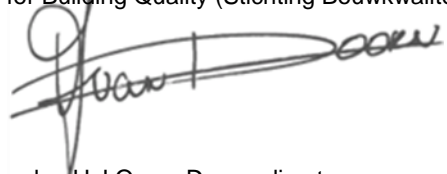
The connection of the building elements assembled with wood-based panels type plywood to the Building Act has been assessed and the principles for the assessment are reassessed periodically.

Based on this, SKH declares that the building elements assembled with wood-based panels type plywood comply with the requirements of the Building Act included in this BA-connection document, provided that:

- the technical specifications and application conditions defined in this BA-connection document are met;
- the production of the building elements assembled with wood-based panels type plywood is carried out according to the conditions and/or processing methods stipulated in this BA-connection document.

In the context of this Licensed BA-connection document, no inspection of the manufacture of the wood-based panels type plywood takes place, neither of its composition and/or the assembly into building elements.

This BA-connection document is a licensed quality declaration for the Building Act 2012 according to the Tripartite Agreement in 2015 (Official Gazette (Staatscourant) 8987, 2015) and the Housing Act. This BA-connection document is included in the 'Overview of licensed quality declarations for the building industry' on the website of the Foundation for Building Quality (Stichting Bouwkwaliteit: www.bouwkwaliteit.nl).



drs. H.J.O van Doorn, director



Users of this BA-connection document are advised to verify its validity; consult the SKH-website: <http://www.skh.nl>.

This BA-connection document consists of: 6 pages.

Consult the Dutch version in case of doubt.

1 INTRODUCTION

This BA-connection document provides the connection for building elements assembled with wood-based panels according to 'SKH Directive 7517 connection Building Act for building elements assembled with wood-based panels' to the Dutch Building Act.

It concerns the plywood of Rougier Gabon.

This BA-connection document is prepared by SKH, which is accredited by the Dutch Council for Accreditation as certification body for the 'SKH Directive 7517 connection Building Act for building elements assembled with wood-based panels'.

This document is valid only, when the wood-based panels type plywood are implemented and applied according to the conditions set out in this connection document. As a licensed quality declaration according to Building Act article 1.11, this connection document provides sufficient evidence for the customer that the wood-based panels type plywood used in building elements comply with the requirements of the Building Act in their application.

This connection document is made up of two parts. The first part deals with the connection to the Building Act. The second part, in the form of an Annex, deals with the technical specification and further specification of the applicable conditions for application and processing guidelines.

2 SUGGESTIONS FOR THE USER

Upon delivery of the plywood, inspect whether:

- the plywood comply with the specification and conditions for application as included in this BA-connection document;
- the material delivered is as agreed upon;
- the products are free of visible defects as a results of transport, handling and such;
- processing guidelines and/or maintenance requirements are available.

In case the materials are rejected based on (one of) the points mentioned above, Rougier Gabon should be contacted and if desirable, the certification body SKH.

3 PERFORMANCE BASED ON THE BUILDING ACT**BUILDING ACT ENTRY (ONLY FOR BUILDING PURPOSES)**

No.	Section	Limiting value/ method of determination	Performance according to quality declaration
2.1	General strength of the building construction*	Ultimate threshold building construction, calculation according NEN-EN 1995-1-1 (including national annex), NEN-EN 1990 (including national annex) and NEN-EN 1991-1-1/3/4/5 (including national annex)	No performance mentioned
2.9	Restriction of development of fire and smoke	Indoor surface	Complies with Building Act
		Outdoor surface*	Optional mention of compliance with Building Act
		Walkable surface	Complies with Building Act
		Part of construction	No performance mentioned
3.9	Restriction of the presence of harmful substances and ionising radiation	According to Ministerial regulations	No performance mentioned

* optional

3.1 PERFORMANCE FROM A SAFETY VIEWPOINT

GENERAL STRENGTH OF THE BUILDING STRUCTURE; BA Section 2.1

3.1.1 Strength of the building structure; BA Articles 2.2, and 2.4

The ultimate limiting condition of the building structure must be calculated in accordance with NEN-EN 1995-1-1 (incl. national appendix) in combination with the loads and load combinations described in NEN-EN 1990 (incl. national appendix) and NEN-EN 1991-1-1/3/4 (incl. national appendix). In this, for the determination of the performance of the plywood, the characteristic values of the mechanical properties of the plywood are used.

Application examples

Siding, façade elements and general carpentry.

LIMITING THE DEVELOPMENT OF FIRE AND SMOKE; BA Section 2.9

3.1.2 Indoor surface; BA Article 2.67

When applied in structural elements adjacent to the indoor air (such as walls and ceilings), BA Article 2.67 distinguishes among 'extra-protected escape route', 'protected escape route' and 'other':

Extra-protected escape route

Plywood may not be used in structural elements adjacent to the indoor air (such as walls and ceilings).

Protected escape route

Plywood of 9 mm and thicker may be used in structural elements adjacent to the indoor air (such as walls and ceilings) in the following usage functions:

- Other residential function
- Other meeting function
- Other healthcare function
- Other industrial function
- Office function
- Educational function
- Sports function
- Retail function
- Other usage function

Other

Plywood of 9 mm and thicker may be used in structural elements adjacent to the indoor air (such as walls and ceilings) in the following usage functions:

- Residential function
- Meeting function
- Healthcare function
- Other industrial function
- Office function
- Accommodation function
- Educational function
- Sports function
- Retail function
- Other usage function

Application conditions

Plywood with a thickness less than 9 mm may not be used in structural elements adjacent to the indoor air (such as walls and ceilings).

3.1.3 Outdoor surface; BA Article 2.68

When applied in structural elements adjacent to the outdoor air (such as walls), BA Article 2.68 distinguishes among 'extra-protected escape route', 'protected escape route' and 'other':

Extra-protected escape route

Plywood may not be used in structural elements adjacent to the outdoor air (such as walls).

Protected escape route

Plywood of 9 mm and thicker may be used in that part of structural elements (such as walls) adjacent to the outdoor air, which is situated not higher than 13 m in the following usage function:

- Other residential function

Plywood of 9 mm and thicker may be used in that part of structural elements (such as walls) adjacent to the outdoor air, which is not situated higher than 13 m, with the exception of the part from the adjacent terrain to a height of at least 2.5 m of a structure of which a floor intended for people lies at least 5 m above the measurement level, in the following usage functions:

- Other meeting function
- Other healthcare function
- Industrial function
- Office function
- Educational function
- Sports function
- Retail function
- Other usage function

Other

Plywood of 9 mm and thicker may be used in that part of structural elements (such as walls) adjacent to the outdoor air, which is situated not higher than 13 m in the following usage function:

- Other residential function

Plywood of 9 mm and thicker may be used in that part of structural elements (such as walls) adjacent to the outdoor air, which is not situated higher than 13 m, with the exception of the part from the adjacent terrain to a height of at least 2.5 m of a structure of which a floor intended for people lies at least 5 m above the measurement level, in the following usage functions:

- Residential function in a residential building
- Residential function for care with a UA greater than 500 m²
- Meeting function
- Cell function
- Healthcare function
- Industrial function
- Office function
- Accommodation function
- Educational function
- Sports function
- Retail function
- Other usage function

Application conditions

Plywood with a thickness less than 9 mm may not be used in structural elements adjacent to the outdoor air (such as walls).

3.1.4 Walkable surface; BA Article 2.69

When applied for the upper surface of a floor, stairs or an access ramp, BA Article 2.69 distinguishes among 'extra-protected escape route', 'protected escape route' and 'other':

Extra-protected escape route

Plywood may not be used for the upper surface of a floor, stairs or an access ramp.

Protected escape route

Plywood of 9 mm and thicker may be used for the upper surface of a floor, stairs or an access ramp in the following usage functions:

- Other residential function
- Meeting function
- Healthcare function
- Industrial function
- Office function
- Accommodation function
- Educational function
- Sports function
- Retail function
- Other usage function

Other

Plywood of 9 mm and thicker may be used for the upper surface of a floor, stairs or an access ramp in the following usage functions:

- Residential function
- Meeting function
- Healthcare function
- Industrial function
- Office function
- Accommodation function
- Educational function
- Sports function
- Retail function
- Other usage function

Application conditions

Plywood with a thickness less than 9 mm may not be used for the upper surface of a floor, stairs or an access ramp.

REDUCING THE PRESENCE OF HARMFUL SUBSTANCES AND IONISING RADIATION;
BA Section 3.9

3.1.5 Ministerial regulations; BA Article 3.63

The plywood shall at least meet the requirements of class E1.

4 BUILDING ACT

The statements in this connection document are based on the following version of the Building Act:

Building Act 2012 Stb. 2011 416, 676; Stb. 2012, 125, 256, 441, 643; Stb.2013, 75, 244, 462; Stb. 2014, 51, 211, 232, 233; 333, 342, 358, 539; Stb 2015, 92, 249, 425; Stb. 2016, 383, 384; Stb. 2017, 268, 494 and the Ministerial Regulations Stcrt. 2011, 23914; Stcrt. 2012, 13245 Stcrt. 2013, 5457, 16919; Stcrt. 2014, 4057, 34076, 37003; Stcrt. 2015, 17338, 45221; Stcrt. 2016, 33491, 71548; Stcrt. 2017, 73470

Annex A: technical specification and conditions for application

A.1 TECHNICAL SPECIFICATION

The statements in this licensed BA-connection document are based on the plywood as described in this technical specification. The statements are not valid for plywood which that deviate from this specification.

A.1.1 Characteristics of plywood

The connection to the Building Act, elaborated in this declaration, is based on the following characteristics of the plywood, as declared by the supplier:

Characteristic	Basis for connection
Restriction of development of fire and smoke	The plywood have a fire class of at least D, D _{f1} and smoke class of at least s2, s1 _{f1} according to NEN-EN 13501-1 with plywood with a thickness of 9 mm or thicker. For plywood with a thickness of less than 9 mm, fire class F applies and is therefore not suitable for use in construction.
Reducing the presence of harmful substances	The plywood comply with the requirements of at least class E1 according to NEN-EN 13986 Annex B

With regard to the essential characteristics as described in Annex ZA of the harmonised European standard the values should be used, which are included in the declaration of performance of the specific manufacturer. Mention of the characteristics above is only to express the underlying principles for making the connection to the Building Act. Essential characteristics are not part of the declaration of this BA-connection document.

Table 1 Description of various types of plywood

Type	Thickness in mm	Class of surface finish	Timber species	Glue
PRESTIGIO PIU GOLDPLEX GARANT	3 - 40	1	Okoumé	UMF
OKOUCENT EXTERIEUR	3 - 40	2	Okoumé	UMF
OKOUCENT EXTERIEUR	3 - 40	3	Okoumé	UMF

Table 2 Special characteristics of various types of plywood

Type	Overlaid	Primer	Pre-varnish	Composite plywood	Composite material
PRESTIGIO PIU GOLDPLEX GARANT	No	No	No	No	No
OKOUCENT EXTERIEUR	No	No	No	No	No
OKOUCENT EXTERIEUR	No	No	No	No	No

Table 3 Composition of the plywood

Type of sheet	Thickness in mm	Number of layers (minimum)
	3 - 6	3
	6 - 10	5
	12 / 15	7
OKOUCENT	18 - 20	9
GOLDPLEX GARANT	22 / 25	11
PRESTIGIO PIU	30	13
	35	15
	40	17

A.2 PROCESSING GUIDELINES / CONDITIONS FOR APPLICATION

The plywood producer is obliged to supply application instruction in relation to the certified plywood, or refer to a document that is publicly available (e.g. on the producers website).