



# SOMMERFELD + THIELE GmbH

BOOTSBAUSPERRHOLZWERK • HOLZSPEZIALVERARBEITUNG  
PLATTENHANDEL • HOLZ • IMPORT • EXPORT

Breslauer Straße 15  
Tel. +49 (0) 4542 / 8464 - 0  
Internet: www.sommerfeld-thiele.de

D-23879 Mölln  
Fax +49 (0) 4542 / 8464 - 45  
E-Mail: info@sommerfeld-thiele.de

## PLYWOOD FLAME RETARDANT OKOUMÉ

## TECHNICAL DATA APIOKO 01/2017

### Description:

The flame retardant Okoumé Poplar plywood, bonded with melamine adhesive, is made with rotary cut Poplar veneers previously subjected to an impregnation in the mass by a special chemical solution which confers to the wood a significant behaviour against fire.

The panel is characterized by its lightness and ease of processing, but it also shows discrete mechanical properties. It is designed to meet safety requirements in terms of prevention and fire protection.

### Fire reaction:

Apiros Poplar plywood is CE marked according to EN 13986 for internal use in construction as non structural element, in compliance with the requirements of the Regulation (EU) No 305/2011(CPR).

Its fire behaviour is certified according to EN 13501-1, as follows:

- panel in the thickness range between 4 and 9 mm: Euroclass B-s2, d0 for application as wall and/or ceiling lining, in contact with non-combustible support (certificate No. 0987-CPR-144);
- panel in the thickness range between 9 and 50 mm: Euroclass B-s2, d0 for application as wall and/or ceiling lining, not in contact with any support (certificate No. 0987-CPR-145);
- panel in the thickness range between 9 and 50 mm: Euroclass B<sub>FL</sub>-s1 for application as floor covering, not in contact with any support (certificate No. 0987-CPR-136).

Performance characteristic	Reference Standard	Unit	Values									
			4	6	8	10	12	15	18	20	25	30
Thickness	EN 315	mm	4	6	8	10	12	15	18	20	25	30
Layers		n°	3	5	5	5	7	7	9	9	11	15
Density	EN 323	kg • m <sup>-3</sup>	520 ± 40									
Weight		kg • m <sup>-2</sup>	2,1	3,1	4,2	5,2	6,2	7,8	9,4	10,4	13,0	15,6
Bending strength: long grain	EN 310	N • mm <sup>-2</sup>	60	45	45	40	45	45	37	35	35	35
cross grain	EN 310	N • mm <sup>-2</sup>	25	35	35	30	40	45	39	25	25	30
Modulus of elasticity: long grain	EN 310	N • mm <sup>-2</sup>	7.000	5.700	5.200	5.200	5.000	5.500	4.700	4.500	5.000	4.500
cross grain	EN 310	N • mm <sup>-2</sup>	1.000	3.900	3.800	3.800	4.000	3.900	3.900	3.500	4.000	3.800
Bonding quality	EN 314-2	Class	2									
Release of formaldehyde	EN 712-2	Class	E1									
Reaction to fire	EN 13501-1	Class	NPD				B-s2, d0 / B <sub>FL</sub> -s1					
Thermal conductivity λ	EN 12664	W / (m • k)	0,13									

NPD = No Performance Determined

**Note:** The information given in this data sheet must be considered as mean values resulting from internal controls and are therefore indicative. The buyer is responsible for assessing the suitability of the panels to the specific application to which they are intended. He is also responsible that the modality of transport, storage and use of the panels are correct and conform to the guideline of the supplier and the requirement of applicable standards.