



Classification Table for Burnblock Treated Wood

The protocol on fire testing and classification of GNB-CPD position paper NB-CPD/SH02/12/096 (issued 21 December 2012), from the group of Notified Bodies for the Construction Products Directive, has been applied in the process of testing.

Solid Wood

According to Classification: EN 13501-1:2007+A1:2009 and EN 13501-2:2007+A1:2009 and EN 13501-1:2018

According to Classification: EN 13823 (SBI) and EN 14135:2004

Wood Species	Density	Min. Thickness	Ventilated Cavity	Reaction to Fire Classes *1	Resistance to Fire Classes *2
Spruce	355-536	15 mm	40 mm	B-s1,d0	K1, K2,10/ B-s1,d0
Pine	450-600	21 mm		B-s1,d0	
Oak	500-750	20 mm		B-s1,d0	
Western Red Cedar	350-450	12.5 mm		B-s2,d0	
Western Red Cedar	316-494	15 mm	40mm	B-s1,d0	
Siberian Larch	650-750	15 mm	40 mm	B-s1,d0	
Sapele	325-690	15 mm	40 mm	B-s1,d0	

Thermo Wood

According to Classification: EN 13501-1:2007+A1:2009 and EN 13501-2:2007+A1:2009 and EN 13501-1:2018

According to Classification: EN 13823 (SBI) and EN 14135:2004

Wood Species	Density	Min. Thickness	Ventilated Cavity	Reaction to Fire Classes *1	Resistance to Fire Classes *2
Thermo Spruce	314-434	15 mm	40 mm	B-s1,d0	
Thermo Ash	590-680	15 mm	40 mm	B-s1,d0	K1, K2,10/ B-s1,d0
Thermo Pine	450-500	15 mm	40 mm	B-s1,d0	
Thermo Ayous	269-374	15 mm	40 mm	B-s1,d0	
Accoya	400-700	19 mm	40 mm	B-s1,d0	

Plywood

According to Classification: EN 13501-1:2007+A1:2009 and EN 13501-2:2007+A1:2009 and EN 13501-1:2018

According to Classification: EN 13823 (SBI) and EN 14135:2004

Wood Species	Density	Min. Thickness	Ventilated Cavity	Reaction to Fire Classes *1	Resistance to Fire Classes *2
Birch Plywood	650-750	12 mm	40 mm	B-s1,d0	K1, K2,10/ B-s1,d0
Pine Plywood	450-600	12 mm	40 mm	B-s1,d0	K1, K2,10/ B-s1,d0
LVL	550-600	27 mm		B-s1,d0	

Product Details

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Certification & Test

Independent 3rd party institutes.

BRE UK

Building science centre

DBI

Fire and Security

RISE

The Swedish Research Institute

MPA Eberswalde

Materialprüfanstalt Brandenburg

AIDIMME

Instituto Tecnológico

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Classification Table for Burnblock Treated Wood

MDF - Medium-Density Fibreboard

According to Classification: EN 13501-1:2007+A1:2009 and EN 13501-2:2007+A1:2009

According to Classification: EN 13823 (SBI) and EN 14135:2004

Wood Species	Density	Min. Thickness	Reaction to Fire Classes *1	Resistance to Fire Classes *2
Woodfibers for MDF	750	19 mm	B-s1,d0	

Fire Resistance Class SP Fire 105

The facade cladding described above has been fire tested accordance with SP Fire 105, issue 5, dated 1994-09 and is assessed to satisfy the requirement for external walls in buildings of class Br1.

Wood Species	Density	Min. Thickness	Reaction to Fire Classes *1	Resistance to Fire Classes *2
Spruce	350-600	21 mm	B-s1,d0	SP 105

Indication test according to EN 13823 (SBI)

The single test indicates a classification of B-s1,d0 according to EN 13501-1

Wood Species	Density	Min. Thickness	Reaction to Fire Classes. Indicates DK Klasse A-Materials	Resistance to Fire Classes Indicates DK-Klasse 1-Clothing
Bamboo	600-700	26 mm	B-s1,d0	

EN45545-2:2013 fire behavior of materials and products used in trains

Wood Species	Density	Min. Thickness	Fire Resistance Class
Birch plywood	700-750	12 mm	R10; HL1/HL2/HL3 (flooring)
Birch plywood	700-750	12 mm	R1; HL1/HL2 (walls)
Birch plywood	700-750	12 mm	R7; HL1/HL2 (exterior walls)

FINISHING - Interiour Lacquer for Wood and Wood-based Products

The Burnblock Lacquer is a finishing for Burnblock treated materials.

Fully certified fire-retardant treatment is only possible when using the LW-121/45/BB lacquer in connection with Burnblock® treated wood.(non-contributing to the development of fire)

Wood Species	Density	Min. Thickness	Reaction to Fire Classes. Indicates DK Klasse A-Materials
Pine Plywood	300-684	12 mm	B-s1,d0

Product Details

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Testing Institute:

Independent 3rd party institute:

BRE UK

Building science centre

DBI

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RISE

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