



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.

Family 1

According to Classification: EN 13501-1:2018 and EN 13501-1:2020
According to Test: EN 13823 (SBI) and EN 14135:2004

Wood species	Density kg/m ³	Thickness mm	Reaction to fire class
Spruce*	355-536	15-42	B-s1,d0
Pine	450-600	15-42	B-s1,d0
Western Red Cedar	316-494	15-42	B-s1,d0
Western Red Cedar	350-450	12,5	B-s2,d0
Larch	550-630	15-42	B-s1,d0
Ayous	330-530	15-42	B-s1,d0
Ash	650-850	15-42	B-s1,d0
Fraké	430-730	15-42	B-s1,d0
Douglas Fir	480-580	15-42	B-s1,d0

With a ventilated or non-ventilated air gap between product and substrate or with no air gap

* Resistance to fire class: K1, K2, 10 / B-s1,d0

Family 2

According to Classification: EN 13501-1:2018 and EN 13501-1:2020
According to Test: EN 13823 (SBI)

Wood species	Density kg/m ³	Thickness mm	Reaction to fire class
Thermo Spruce	314-434	15-42	B-s1,d0
Thermo Ash	590-680	15-42	B-s1,d0
Thermo D-Pine	360-550	15-42	B-s1,d0
Thermo Ayous	269-374	15-42	B-s1,d0
Thermo Frake	410-730	15-42	B-s1,d0
Thermo Poplar	350-500	15-42	B-s2,d0
Thermo Tulipwood	430-720	15-42	B-s1,d0

With a ventilated or non-ventilated air gap between product and substrate or with no air gap

Family 3

According to Classification: EN 13501-1:2018 and EN 13501-1:2020
According to Test: EN 13823 (SBI)

Wood species	Density kg/m ³	Min thickness mm	Reaction to fire class
Oak	500-750	20	B-s1,d0
Sapele	325-690	15	B-s1,d0

With a ventilated or non-ventilated air gap between product and substrate or with no air gap

Product details

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Family 4

According to Classification: EN 13501-1:2018 and EN 13501-1:2020
According to Test: EN 13823 (SBI)

Wood species	Density kg/m ³	Thickness mm	Reaction to fire class
Accoya	400-600	19	B-s1,d0

With a ventilated or non-ventilated air gap between product and substrate or with no air gap

Family 5

According to Classification: EN 13501-1:2018 and EN 13501-1:2020
According to Test: EN 13823 (SBI) and EN 14135:2004

Wood species	Density kg/m ³	Min. thickness mm	Reaction to fire class
Birch Plywood	650-750	12	B-s1,d0
Birch Plywood*	650-750	12	B-s1,d0
Pine Plywood*	450-600	12	B-s1,d0
LVL**	550-600	27	B-s1,d0

With a ventilated or non-ventilated air gap between product and substrate or with no air gap

* Resistance to fire class: K1, K2, 10/B-s1,d0

** LVL - Laminated Veneer Lumber

Family 6

According to Classification: EN 13501-1:2007+A1:2009 and EN 13501-2:2007+A1:2009
According to Classification: EN 13823 (SBI)

Wood species	Density kg/m ³	Min. thickness mm	Reaction to fire class
MDF*	750	19	B-s1,d0

* MDF - Medium-Density Fiberboard

Family 7

According to Classification: EN 13501-1:2018 and EN 13501-1:2020
According to Test: EN 13823 (SBI)

Wood species	Density kg/m ³	Thickness mm	Reaction to fire class
Thermo Spruce	310-500	18	B-s1,d0

With a ventilated or non-ventilated air gap between product and substrate or with no air gap

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Wood species	Density kg/m ³	Min. thickness mm	Reaction to fire class	Resistance to fire class
Eucalyptus Plywood	540-610	9	B-s1,d0	-
Eucalyptus Plywood	540-610	5.5	B-s1,d0*	-
Thermo Pine	450-500	21	-	SP 105
Oak	500-750	23	-	SP 105

* With no air gap

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Fire Resistance Class SP Fire 105

The facade cladding 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 kg/m ³	Min. thickness mm	Resistance to fire class
Spruce	350-600	21	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 kg/m ³	Min. thickness mm	Reaction to fire class
Bamboo	600-700	26	B-s1,d0
Poplar plywood	530-580	45	B-s1,d0

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

Wood species	Density kg/m ³	Min. thickness mm	Fire resistance class
Birch Plywood	700-750	12	R10; HL1/HL2/HL3 (flooring)
Birch Plywood	700-750	12	R1; HL1/HL2 (walls)
Birch Plywood	700-750	12	R7; HL1/HL2 (exterior walls)

SUBSTRATE

Standard substrate

Standard substrate used in tests are any substrates of classes A1 and A2-s1,d0 of at least 12 mm thickness and with a density equal to or greater than 525 kg/m³.

Fibre-cement flat sheet substrate

Fibre-cement flat sheet substrate A2-s1,d0 (Swisspearl or a similar product) alternative available for wood species in family 1 and family 2. Substrate density equal to or greater than 1300 kg/m³. Substrate thickness at least 4.5 mm.

SURFACE COATING

LACQUER - for inside use - 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 kg/m ³	Min. thickness mm	Reaction to fire class
Pine Plywood	300-684	12	B-s1,d0

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PAINT: SHERWIN WILLIAMS

Sherwin Williams SX1420 + EG1570 on Burnblock® B-s1,d0 certified wood

Wood species	Density kg/m ³	Thickness mm	Reaction to fire class
Family 1	355-536	19-42	B-s1,d0
Family 2	360-550	19-42	B-s2,d0

LASUR: MASQUELACKS

Cosy Vintage Masquelack on Burnblock® B-s1,d0 certified wood

Wood species	Density kg/m ³	Thickness mm	Reaction to fire class
Family 1	355-536	19-42	B-s1,d0
Family 2	360-550	19-42	B-s2,d0

PAINT: SIOO:X

Sioo:X Wood Protector + Sioo:X Surface Protector on Burnblock® B-s1,d0 certified wood

Wood species	Density kg/m ³	Thickness mm	Reaction to fire class
Family 1	355-536	19-42	B-s1,d0
Family 2*	360-550	19-42	B-s1,d0

* Except for Family 2 Thermo Poplar reaction to fire class B-s2,d0

SURFACE COATING - Partner owned

PAINT: Remmers

Remmers Induline DW-618 and LW-718 on Burnblock® B-s1,d0 certified wood.

Remmers own this documentation. Please contact Remmers to be advised on an industrial partner, who has this solution CE certified. https://en.remmers.com/en_IN

Wood species	Density kg/m ³	Thickness mm	Reaction to fire class
Family 1	355-536	19-42	B-s2,d0
Family 2	360-550	19-42	B-s2,d0

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