



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	Thickness	Reaction to Fire Classes *1
Spruce*	355-536	15-42 mm	B-s1,d0
Pine	450-600	15-42 mm	B-s1,d0
Western Red Cedar	316-494	15-42 mm	B-s1,d0
Larch	550-630	15-42 mm	B-s1,d0
Ayous	330-530	15-42 mm	B-s1,d0
Western Red Cedar	350-450	12,5 mm	B-s2,d0
Ash	650-85	15-42 mm	B-s1,d0
Fraké	430-730	15-42 mm	B-s1,d0

* Resistance to Fire Classes *2: K1, K2, 10/B-s1,d0

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

Family 2

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

Wood Species	Density	Thickness	Reaction to Fire Classes *1
Thermo Spruce	314-434	15-42 mm	B-s1,d0
Thermo Ash	590-680	15-42 mm	B-s1,d0
Thermo D-Pine	450-500	15-42 mm	B-s1,d0
Thermo Ayous	269-374	15-42 mm	B-s1,d0
Thermo Frake	410-730	15-42 mm	B-s1,d0
Thermo Poplar	350-500	15-42 mm	B-s2,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	Min. Thickness	Reaction to Fire Classes *1
Oak	500-750	20 mm	B-s1,d0
Sapele	325-690	15 mm	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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NOTE: Density is measured as Kg/m³



Family 4

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

Wood Species	Density	Thickness	Reaction to Fire Classes *1
Accoya	400-600	19 mm	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	Min. Thickness	Reaction to Fire Classes *1
Birch Plywood	650-750	12 mm	B-s1,d0
Birch Plywood*	650-750	12 mm	B-s1,d0
Pine Plywood*	450-600	12 mm	B-s1,d0
LVL**	550-600	27 mm	B-s1,d0

* Resistance to Fire Classes *2: K1, K2, 10/B-s1,d0

**LVL (laminated veneer lumber)

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

Family 6

MDF - Medium-Density Fiberboard

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	Min. Thickness	Reaction to Fire Classes *1
MDF	750	19 mm	B-s1,d0

Family 7

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

Wood Species	Density	Thickness	Reaction to Fire Classes *1
Thermo Spruce	310-500	18 mm	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	Min. Thickness	Reaction to Fire Classes *1	Resistance to Fire Classes *2
Eucalyptus Plywood	540-610	9 mm	B-s1,d0	-
Eucalyptus Plywood	540-610	5.5 mm	B-s1,d0*	-
Thermo Pine	450-500	21 mm	-	SP 105
Oak	500-750	23 mm	-	SP 105

*with no air gap

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NOTE: Density is measured as Kg/m³



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	Resistance to Fire Classes *2
Spruce	350-600	21 mm	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
Bamboo	600-700	26 mm	B-s1,d0
Poplar plywood	530-580	45 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)

SURFACE COATING

LACQUER - Interior 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.
Pine Plywood	300-684	12 mm	B-s1, d0

PAINT: SHERWIN WILLIAMS

Sherwin Williams SC1420 + EG1570 on Burnblock® B,s1-d0 certified wood

Wood Species	Density	Min. Thickness	Reaction to Fire Classes
F1 family	355-536	15 mm	B-s1, d0
F2 family	450-500	15 mm	B-s2, d0

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NOTE: Density is measured as Kg/m³



LASUR: MASQUELACKS

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

Wood Species	Density	Min. Thickness	Reaction to Fire Classes
F1 family	355-536	15 mm	B-s1, d0
F2 family	450-500	15 mm	B-s2, d0

PAINT: SIOO:X

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

Wood Species	Density	Min. Thickness	Reaction to Fire Classes
F1 family	355-536	15 mm	B-s1,d0
F2 family	450-500	15 mm	B-s1,d0

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