

Accompanying information to CE-marking to EN 13986:2015

Type of wood Top layer	Type of Wood middle layer	Thickness (mm)	Thermal conductivity λ <W/m K>**	Airborne sound insula- tion R <dB>**	Vapour resis- tance factor wet cup**	Vapour resis- tance factor dry cup**	Technical class	Reaction to fire EN 13986 table 8			formalde- hyde class EN717-2	Content of pentachlor- phenol	Soundabsorption
								Density <kg/m ² >	Thickness <mm>	Fireclassi- fication*			
Reclaimed wood Alder grey	NH	21	0,13	27,2	69	197	SWP/2 NS (non structural)	≥ 400	≥ 12	D - s2, d0	E1 (<0,1 ppm)	≤ 5 ppm	250 - 500 Hz 0,10 1000 – 2000 Hz 0,30
Ash	NH	15	0,14	26,1	78	208							
		19	0,14	27,4	76	206							
		29	0,14	29,4	73	203							
		40	0,13	31,0	71	201							
	SP	19	0,17	28,5	88	218							
		29	0,17	30,9	88	218							
Oak	NH	15	0,15	26,1	80	210							
		19	0,15	27,6	79	209							
		29	0,14	29,1	75	205							
		40	0,14	31,0	74	204							
	SP	19	0,17	28,7	91	221							
		29	0,17	31,0	90	220							
American Walnut	NH	15	0,16	26,6	86	216							
		19	0,14	27,1	74	204							
		29	0,14	29,3	78	208							
		40	0,14	31,0	76	206							
Spruce aged	NH	19	0,12	26,4	67	193							
Oak medium	NH	19	0,14	27,2	75	205							
for furniture panel Oak	EI	19	0,17	29,0	89	219							
	EI	28	0,17	30,7	89	219							
for furniture panel Ash	ES	19	0,17	28,5	89	219							
	ES	28	0,17	30,8	89	219							

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Type of wood Top layer	Type of wood middle layer	Thickness (mm)	Thermal conductivity λ <W/m K>**	Airborne sound insulation R <dB>**	Vapour resistance factor wet cup**	Vapour resistance factor dry cup**	Technical class	Reaction to fire EN 13986 Table 8			Formaldehyde class EN717-2	Content of pentachlorophenol	Soundabsorbtion
								Density <kg/m ² >	Thickness <mm>	Fireclassification*			
For furniture panel Core Ash	ES	19	0,17	28,5	89	219	SWP/2 NS (non structural)	≥ 400	≥ 12	D - s2, d0	E1 (<0,1 ppm)	≤ 5 ppm	250 - 500 Hz 0,10 1000 – 2000 Hz 0,30
	ES	28	0,17	30,8	89	219							
For furniture panel American Walnut	NU	19	0,16	28,1	84	214							
	NU	28	0,16	30,4	84	214							
Larch aged	NH	19	0,14	27,2	75	205							
		40	0,14	31,8	71	201							
Reclaimed wood	NH	19	0,12	26,4	67	193							
		22	0,12	26,7	67	193							
		22	0,12	27,2	67	193							
		42	0,12	30,6	67	193							
Recl. wood rustic	NH	19	0,12	26,4	67	193							
Spruce	NH	12	0,12	23,5	67	193	SWP/3 NS (non structural)	≥ 400	≥ 12	D - s2, d0	E1 (<0,1 ppm)	≤ 5 ppm	250 - 500 Hz 0,10 1000 – 2000 Hz 0,30
		15	0,12	25,0	67	193							
		19	0,12	26,4	67	193							
		22	0,12	27,2	67	193							
		24	0,12	27,7	67	193							
		27	0,12	28,3	67	193							
42	0,12	30,6	67	193									
Recl. wood sb. grey	NH	22	0,12	27,2	67	193	SWP/2 NS (non structural)	≥ 400	≥ 12	D - s2, d0	E1 (<0,1 ppm)	≤ 5 ppm	250 - 500 Hz 0,10 1000 – 2000 Hz 0,30
Recl. wood sb. brown	NH	22	0,12	27,2	67	193							
Recl. wood sb. brushed	NH	22	0,12	27,2	67	193							
Recl. wood hacked H2	NH	19	0,12	26,4	67	193							
		20	0,12	26,6	67	193							
Recl. wood hacked H3	NH	19	0,12	26,4	67	193							
		20	0,12	27,1	66	191							
Recl. wood hacked H4	NH	19	0,12	26,4	67	193							
		20	0,12	27,1	66	191							

Wooden Floors
Floors

Wooden Panels
Elements

Wooden acoustic panels
Acoustics

Wooden Stairs
Stairs

Wooden Doors
Doors

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Type of wood Top layer	Type of wood middle layer	Thickness (mm)	Thermal conductivity λ <W/m K>**	Airborne sound insulation R <dB>**	Vapour resistance factor wet cup**	Vapour resistance factor dry cup**	Technical class	Reaction to fire EN 13986 Table 8			Formaldehyde class EN717-2	Content of pentachlorophenol	Soundabsorption
								Density <kg/m ³ >	Thickness <mm>	Brand- klasse*			
Recl. wood extreme	NH	19	0,12	26,6	67	193	SWP/2 NS (non structural)	≥ 400	≥ 12	D - s2, d0	E1 (<0,1 ppm)	≤ 5 ppm	250 - 500 Hz 0,10 1000 – 2000 Hz 0,30
		42	0,12	30,6	67	193							
Recl. wood Oak	NH	19	0,15	27,6	79	209							
Stone-Pine	NH	19	0,12	25,9	63	183							
		40	0,12	28,0	64	183							
Larch	NH	15	0,14	26,3	76	206							
		19	0,14	27,2	75	205							
		24	0,15	28,3	74	204							
		27	0,14	29,0	73	203							
		40	0,13	30,9	70	200							
42	0,13	31,1	69	199									
Fir	NH	19	0,12	26,3	67	192	SWP/2 NS						

*) Notes: Classes of reaction to fire:

These classes are the same as Table 1 of Commission Decision 2003/43/EC of 17 January 2003 (OJEU L13 of 18.1.2003) corrected by Corrigendum (OJEU L33 of 8-2-2003) and amended by Commission Decision 2007/348/EC of 15 May 2007 (OJEU L131 of 23-052007)

Mounting without an air gap behind the element:

The class stated applies to solid wood panels excluding floorings mounted without an air gap directly against class A1 or A2-s1, d0 products with minimum density 10kg/m³ or at least class D-s2, d0 products with minimum density 400 kg/m³. A substrate of cellulose insulation material of at least class E may be included if mounted directly against the woodbased panel, but not for floorings.

Mounting with a closed or an open air gap not more than 22 mm behind the element:

The class stated applies to solid wood panels excluding floorings whose reverse face of the cavity shall be at least class A2-s1, d0 products with minimum density 10 kg/m³.

Mounting with a closed air gap (of any thickness) behind the element:

The class stated applies to solid wood panels with a minimum thickness \geq 15mm excluding floorings, whose reverse face of the cavity shall be at least class D-s2, d2 products with minimum density 400 kg/m³

Mounting with an open air gap (of any thickness) behind the element:

The class stated applies to solid wood panels with a minimum thickness \geq 18mm excluding floorings, whose reverse face of the cavity shall be at least class D-s2, d2 products with minimum density 400 kg/m³.

Class in case of use as flooring: Dfl-s1 applies to Solid wood panels used as flooring. Corresponds to Commission Decision 2000/147/EG, appendix, table 2

**) Values given are based on average values of density – thus natural deviations may occur!

**) Linear interpolation between the thicknesses of panels is acceptable

NH ... Softwood
SP ... Plywood

Admont, June 2022

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