



DECLARATIONS of PERFORMANCE

according to regulation (EU) No. 305/2011 of the European Parliament and of the Council of
09.03.2011, Annex III

For

STRUCTURAL and NON-STRUCTURAL CONSTRUCTION PRODUCTS

according to harmonized standard

EN 13986:2004+A1:2015



NATURHOLZPLATTEN

MANUFACTURER:

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Version: G

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Valid starting from production code E 155

 TILLY NATURHOLZPLATTEN	Declarations of Performance		Document-No: DoPen DoPenTILLY2021G	
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Panel densities at 20° C/65% [kg/m³], ± 10 kg/m³

SOFTWOOD-PANELS:

SPRUCE	470 kg/m ³
PINE	550 kg/m ³
LARCH	580 kg/m ³
DOUGLAS FIR	510 kg/m ³
SWISS STONE PINE	500 kg/m ³
FINELINE 19 mm	535 kg/m ³
FINELINE 26 + 42 mm	515 kg/m ³

HARDWOOD-PANELS:

MAPLE	630 kg/m ³
BIRCH	580 kg/m ³
BEECH	660 kg/m ³
OAK	650 kg/m ³
ALDER	490 kg/m ³
ASH	630 kg/m ³
CHERRY	550 kg/m ³

Note: The indication of the panel densities in the declaration of performance is in accordance with EN 13986 not allowed. Knowledge of the panel densities in conjunction with the following declarations of performance is helpful!

Older versions of the declarations of performance can be requested at office.platten@tilly.at

The products manufactured by TILLY are not subject to a REACH registration requirement!



Declaration of Performance
according to Annex III of Regulation (EU) No. 305/2011

Document-No:
DoP01b
DoPenTILLY2021G

3layer solid wood panel softwood
as structural component for interior or protected exterior use in dry and humid conditions **SWP/2 S L3, softwood 17 – 60 mm**

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1. Unique identification code of the product type:
3layer solid wood panels softwood SWP/2 S (structural) L3, 17-60 mm
Species: Spruce, Antique Spruce, Pine, Larch, Douglas Fir, Swiss Stone Pine
2. Batch number: 7-8digit code on the longitudinal edges of the panel or pallet label (packaging)
e.g. 42 E 155 5 (codes for production plant, year and date of production, inspector)
3. Intended use of the construction product as intended by the manufacturer:
SWP/2 S L3: 3layer solid wood panel as structural component for interior (or exterior protected) use in dry and humid conditions, acc. to EN 13353
4. Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**
A-9330 Althofen, Krappfelder Straße 27; office.platten@tilly.at; www.tilly.at
5. Authorized representative: not applicable
6. System of assessment and verification of constancy of performance of the construction product: **2+**
7. Name and contact of the notified body for a harmonized construction product:
Entwicklungs- und Prüflabor Holztechnologie GmbH D-01217 Dresden, www.eph-dresden.de (identification number 0766) performed initial type testing in accordance with system 2+ acc. to EN 13986:2004+A12015 and issued the following certificates of the factory production control: **Certificate 0766-CPR-377-1**
EPH Dresden performs the continuous surveillance, assessment and approval of the factory production control.
8. European Technical Assessment (ETA): not applicable
9. Declared performance:

Significant Characteristics			Performance								harm. technical Specification:	
SWP/2 S L3 softwood 17-60 mm		Nominal thickness range mm *)	17-20	>20 - 30	>30 - 42	> 42 - 60						
1+	Bending strength		See point 13,								EN 13986:2004+A1:2015	
2	Bending stiffness		Strength and stiffness for structural use									
3	Bonding strength		SWP/2 acc. to EN 13354:2008 (pretreatment 2) 0,8 ≤ f _v ≤ 1,2 N/mm ² (wood failure ≥20%)									
4	Internal bond		NPD									
5	Durability (moisture expansion)		NPD									
6	Durability (moisture resistance)		SWP/2; 0,8 ≤ f _v ≤ 1,2 N/mm ²									
7	Release of formaldehyde	Class	E1									
8	Reaction to fire	Class reaction to fire	Minimum Thickness	End use condition								
		D-s2, d0	12 mm	Without air gap behind wood panel								
			15 mm	With air gap behind wood panel								
D-s2, d2	18 mm	With air gap behind wooden material										
9	Water vapour permeability μ (species: humid/dry)	μ [1]	Spruce: 67/193		Pine: 75/205		Larch: 78/208					
			Douglas Fir: 71/201		Swiss Stone Pine: 70/200							
10	Airborne sound insulation R	R [dB]	mm	17	19	22	26	27	32	42	50	60
		Spruce		25,7	26,4	27,2	28,1	28,3	29,3	30,8	31,8	32,9
		Pine		26,6	27,2	28,1	29,0	29,2	30,2	31,7	32,7	33,7
		Larch		26,9	27,5	28,4	29,3	29,5	30,5	32,0	33,0	34,0
		Douglas Fir		26,2	26,8	27,6	28,6	28,8	29,8	31,3	32,3	33,3
Swiss Stone Pine		26,1	26,7	27,5	28,5	28,7	29,7	31,2	32,2	33,2		
11	Sound absorption α	α [1]	0,1 (250-500 Hz)									
			0,3 (1000-2000 Hz)									
12	Thermal conductivity λ	λ [W/mK]	Spruce: 0,12			Pine: 0,14			Larch: 0,15			
			Douglas Fir: 0,13			Swiss Stone Pine 0,13						



NATURHOLZPLATTEN



Declaration of Performance

according to Annex III of Regulation (EU) No. 305/2011

Document-No:

DoP01b

DoPenTILLY2021G

3layer solid wood panel softwood

as structural component for interior or protected exterior use in dry and humid conditions **SWP/2 S L3, softwood 17 – 60 mm**

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Significant Characteristics		Performance				harm. technical Specification	
Strength and stiffness for structural use [N/mm ²]	Nominal thickness range [mm]	17-20	>20 - 30	>30 - 42	> 42 - 60		
Panel loading							
Bending strength	f _{m,0}	35	30	16	12	EN 13986:2004+A1:2015	
	f _{m,90}	5	5	9	9		
Bending stiffness (modulus of elasticity)	E _{m,0} *)	10000	8200	7600	7100		
	E _{m,90} *)	550	550	1500	1500		
Shear strength (panel shear)	f _{v,0}	4	4	3,5	2,5		
	f _{v,90}	5	3,5	2,5	2		
Shear modulus (panel shear)	G _{v,0} *)	470					
	G _{v,90} *)	470					
Planar loading							
Bending strength (planar shear)	f _{p,0}	25	14	12	10		
	f _{p,90}	12	12	12	12		
Bending stiffness (MOE planar shear)	E _{p,0} *)	4700	2900	2400	1800		
	E _{p,90} *)	3500	3500	4700	4700		
Tensile strength	f _{t,0}	16	9	6	6		
	f _{t,90}	6	6	6	6		
Tensile stiffness (MOE)	E _{t,0} *)	4700	3500	2400	2400		
	E _{t,90} *)	2900	2900	2900	2900		
Compression strength	f _{c,0}	16	16	10	10		
	f _{c,90}	10	10	16	16		
Shear strength (planar shear)	f _{r,0}	1,6	1,6	1,2	1,2		
	f _{r,90}	1,4	1,4	1,4	1,4		
Shear modulus (planar shear)	G _{r,0} *)	41					
	G _{r,90} *)	41					
*) All stiffnesses (MOE) are stated as mean, reduce the mean values by a factor of 0.85 to get the characteristic values: E _k (5%)= E _{mean} x 0.85							
14 Mechanical durability k _{mod} (modification coefficient)	k _{mod} [1]	permanent impact	0,6				
		long impact	0,7				
		medium impact	0,8				
		short impact	0,9				
		very short impact	1,1				
k _{def} (deformation coefficient)	k _{def} [1]	Class of use 2: 0,8					
15 Biological Durability	Class	Use class 2					
16 Content of pentachlorophenol	PCP	< 5 ppm					
17 Wall panel capacity	F _{Rd,max} , [N]	NPD					
18 Embedment strength	f _h [N/mm ²]	NPD					

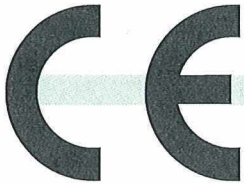
NPD... no property determined

10. Signed for and on behalf of the manufacturer:

Althofen, 04.06.2021

Mag. Mario Wagner
Director
TILLY Holzindustrie GesmbH





CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL

0766 – CPR – 377-1

In compliance with Regulation (EU) No 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation CPR), this certificate applies to the construction product

Tilly Dreischichtplatte

**threelayer Solid Wood Panel acc. to EN 13353:2011 as structural component
for internal use in humid conditions, technical class SWP/2 S L3 (load bearing)
nominal thickness range 17 to 60 mm**

produced by:

**TILLY HOLZINDUSTRIE Ges. m. b. H.
Krappfelder Str. 27
9330 Althofen, Austria**

in the manufacturing plant:

TILLY HOLZINDUSTRIE Ges. m. b. H., Althofen, Austria

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

EN 13986:2004+A1:2015

under system 2+ are applied and that

the factory production control fulfils all the requirements prescribed therein.

This certificate was first issued on 5 June 2020 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonized standard, used to assess the performance of the declared characteristics, do not change, and the product and the manufacturing conditions in the plant are not modified significantly.

Dresden, 5 June 2020

Date



Dr.-Ing. Rico Emmler
Notified Certification Body



NATURHOLZPLATTEN



Declaration of Performance

according to Annex III of Regulation (EU) No. 305/2011

Document-No:

DoP02b

DoPenTILLY2021G

3layer solid wood panel softwood

as non-structural component for interior or exterior protected use in dry and humid conditions **SWP/2 NS L3, softwood 13 – 16 mm**

Version

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- Unique identification code of the product type:
3layer solid wood panels softwood SWP/2 NS (non-structural) L3, 13-16mm
- Batch number: 7-8 digit code on the longitudinal edges of the panel or pallet label (packaging); **e.g. 41 E 155 5** (codes for production plant, year and date of production, inspector)
- Intended use of the construction product as intended by the manufacturer:
SWP/2 NS L3: 3layer solid wood panel as non-structural component for interior or exterior protected use in dry and humid conditions, acc. to EN 13353
- Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**
A-9330 Althofen, Krappfelder Straße 27; office.platten@tilly.at; www.tilly.at
- Authorized representative: not applicable
- System of assessment and verification of constancy of performance of the construction product: **4**
- Name and contact of the notified body for a harmonized construction product: not applicable
- European Technical Assessment (ETB): not applicable
- Declared performance:

Significant Characteristics		Performance			harm. technical specification:	
SWP/2 NS L3 softwood 13-16 mm		Standard thickness	13	15		16
1	Bending strength (panel shear)	f _{m,0}	NPD			EN 13986:2004+A1:2015
		f _{m,90}	NPD			
2	Bonding strength	f _v	SWP/2 acc. to EN 13354:2008 (pretreatment 2) 0,8 ≤ f _v ≤ 1,2 N/mm ² (wood failure ≥20%)			
3	Internal bond		NPD			
4	Durability (moisture expansion)		NPD			
5	Durability (moisture resistance)		SWP/2; 0,8 ≤ f _v ≤ 1,2 N/mm ²			
6	Release of formaldehyde	Class	E1			
7	Reaction to fire	Class	Minimum Thickness	End use condition		
		D-s2, d0	12 mm	Without air gap behind wood panel		
			15 mm	With air gap behind wood panel		
			18 mm	With air gap behind wooden material		
D-s2, d2	12 mm	With air gap closed or open and no greater than 22 mm behind wood panel				
8	Water vapour permeability μ (species: humid/dry)	μ [1]	SPRUCE 67/193	DOUGLAS FIR 71/201		
			PINE 75/205	LARCH 78/208		
9	Airborne sound insulation R	R [dB]	24,2	25,0	25,4	
10	Sound absorption α	α [1]	0,1 (250-500 Hz)			
			0,3 (1000-2000 Hz)			
11	Thermal conductivity λ	λ [W/mK]	SPRUCE 0,12	DOUGLAS FIR 0,13		
			PINE 0,14	LARCH 0,15		
12	Biological Durability		Use class 2			
13	Content of pentachlorophenol	PCP	< 5 ppm			
NPD...no property determined						

10. Signed for and on behalf of the manufacturer:

Althofen, 04.06.2021

Mag. Mario Wagner
Director
TILLY Holzindustrie GesmbH





NATURHOLZPLATTEN



Declaration of Performance

according to Annex III of Regulation (EU) No. 305/2011

Document-No:

DoP03b

DoPenTILLY2021G

3layer solid wood panel hardwood

as non-structural component for interior or exterior protected use in dry and humid conditions, **SWP/2 NS L3, hardwood 20 + 26 mm**

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1. Unique identification code of the product type:
3layer solid wood panels hardwood SWP/2 NS (non-structural) L3, 20-26 mm
2. Batch number: 7-8digit code on the longitudinal edges of the panel or pallet label (packaging);
e.g. 41 E 155 5 (codes for production plant, year and date of production, inspector)
3. Intended use of the construction product as intended by the manufacturer:
SWP/2 NS L3: 3layer solid wood panel as non-structural component for interior or exterior protected use in dry and humid conditions, acc. to EN 13353
4. Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**
A-9330 Althofen, Krappfelder Straße 27; office.platten@tilly.at; www.tilly.at
5. Authorized representative: not applicable
6. System of assessment and verification of constancy of performance of the construction product: **4**
7. Name and contact of the notified body for a harmonized construction product: not applicable
8. European Technical Assessment (ETA): not applicable
9. Declared performance:

Significant characteristic		Performance		harm. technical specification		
SWP/2 NS L3 hardwood 20 – 26 mm		20	26			
1	Bending strength (panel shear)	Standard thickness	NPD			
		$f_{m,0}$	NPD			
2	Bonding strength	f_v	SWP/2 acc. to EN 13354:2008 (pretreatment 2) $0,8 \leq f_v \leq 1,2 \text{ N/mm}^2$ (wood failure $\geq 20\%$)			
3	Internal bond		NPD			
4	Durability (moisture expansion)		NPD			
5	Durability (moisture resistance)		SWP/2; $0,8 \leq f_v \leq 1,2 \text{ N/mm}^2$			
6	Release of formaldehyde	Class	E1			
7	Reaction to fire	Class	Minimum Thickness	End use condition		
		D-s2, d0	12 mm	Without air gap behind wood panel		
			15 mm	With air gap behind wood panel		
			18 mm	With air gap behind wooden material		
D-s2, d2	12 mm	With air gap closed or open and no greater than 22 mm behind wood panel				
8	Water vapour permeability μ (Species: humid/dry)	μ [1]	MAPLE	83/213	ALDER	69/198
			BIRCH	78/208	ASH	83/213
			BEECH	86/216	CHERRY	75/205
			OAK	85/215		
9	Airborne sound insulation R	R [dB]	27,2	29,0		
10	Sound absorption α	α [1]	0,1 (250-500 Hz)			
			0,3 (1000-2000 Hz)			
11	Thermal conductivity λ	λ [W/mK]	MAPLE	0,16	ALDER	0,13
			BIRCH	0,15	ASH	0,16
			BEECH	0,16	CHERRY	0,14
			OAK	0,16		
12	Biological Durability	[1]	Use class 2			
13	Content of pentachlorophenol	PCP	< 5 ppm			

EN 13986:2004+A1:2015

10. Signed for and on behalf of the manufacturer:

Althofen, 04.06.2021

Mag. Mario Wagner
Director
TILLY Holzindustrie GesmbH





NATURHOLZPLATTEN



Declaration of Performance

according to Annex III of Regulation (EU) No. 305/2011

Document-No:

DoP04b

DoPenTILLY2021G

3layer solid wood panel softwood FINELINE
as non-structural component for interior or exterior protected use in dry and humid conditions **SWP/2 NS L3, 19 – 42 mm FINELINE**

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- Unique identification code of the product type:
3layer solid wood panel Spruce FINELINE SWP/2 NS (non-structural) L3, 19 - 42 mm
- Batch number: 7-8digit code on the longitudinal edges of the panel or pallet label (packaging)
e.g. 41 E 155 5 (codes for production plant, year and date of production, inspector)
- Intended use of the construction product as intended by the manufacturer:
SWP/2 NS L3: 3layer solid wood panel as non-structural component for interior or exterior protected use in dry and humid conditions, acc. to EN 13353
- Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**
A-9330 Althofen, Krappfelder Straße 27; office.platten@tilly.at; www.tilly.at
- Authorized representative: not applicable
- System of assessment and verification of constancy of performance of the construction product: **4**
- Name and contact of the notified body for a harmonized construction product: not applicable
- European Technical Assessment (ETA): not applicable
- Declared performance

Significant characteristic		Performance			harm. technical specification	
SWP/2 NS L3 FINELINE 19-42 mm		19	26	42		
1	Bending strength (panel shear)	$f_{m,0}$	NPD			EN 13986:2004+A1:2015
		$f_{m,90}$	NPD			
2	Bonding strength	SWP/2 acc. to EN 13354:2018 (pretreatment 2) $0,8 \leq f_v \leq 1,2 \text{ N/mm}^2$ (wood failure $\geq 20\%$)				
3	Internal bond	NPD				
4	Durability (moisture expansion)	NPD				
5	Durability (moisture resistance)	SWP/2; $0,8 \leq f_v \leq 1,2 \text{ N/mm}$				
6	Release of formaldehyde	Class E1				
7	Reaction to fire	Class	Minimum Thickness	End use condition		
		D-s2, d0	12 mm	Without air gap behind wood panel		
			15 mm	With air gap behind wood panel		
			18 mm	With air gap behind wooden material		
D-s2, d2	12 mm	With air gap closed or open and no greater than 22 mm behind wood panel				
8	Water vapour permeability μ (humid/dry)	μ [1]	74/203	71/201	71/201	
9	Airborne sound insulation R	R [dB]	27,1	28,6	31,4	
10	Sound absorption α	α [1]	0,1 (250-500 Hz)			
			0,3 (1000-2000 Hz)			
11	Thermal conductivity λ	λ [W/mK]	0,13			
12	Biological Durability		Use class 2			
13	Content of pentachlorophenol	PCP [< 5 ppm			
*) Intermediate thicknesses possible in the nominal thickness range, performances can be linear interpolated NPD...no property determined						

10. Signed for and on behalf of the manufacturer:

Althofen, 04.06.2021

Mag. Mario Wagner
Director
TILLY Holzindustrie GesmbH





NATURHOLZPLATTEN



Declaration of Performance

according to Annex III of Regulation (EU) No. 305/2011

Document-No:

DoP05a

DoPenTILLY2021G

3layer solid wood panel softwood formaldehyde-free bonded & Spruce Old Wood (AHZ) as non-structural component for interior use in dry conditions, SWP/1 NS L3, softwood 13 – 50 mm

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- Unique identification code of the product type:
3layer solid wood panels softwood SWP/1 NS (non-structural) L3, 13 - 50 mm, formaldehyde-free bonded and Spruce Old Wood Spruce (AHZ)
- Batch number: 7-8digit code on the longitudinal edges of the panel or pallet label (packaging);
e.g. 41 E 155 5 (codes for production plant, year and date of production, inspector)
- Intended use of the construction product as intended by the manufacturer:
SWP/1 NS L3: 3layer solid wood panel as non-structural component for interior use in dry conditions, acc. to EN 13353
- Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**
A-9330 Althofen, Krappfelder Straße 27; office.platten@tilly.at; www.tilly.at
- Authorized representative: not applicable
- System of assessment and verification of constancy of performance of the construction product: **4**
- Name and contact of the notified body for a harmonized construction product: not applicable
- European Technical Assessment (ETA): not applicable
- Declared performance:

Significant characteristic		Performance				harm. technical specification	
SWP/1 NS L3 13-50 mm, glued free of formaldehyde, old wood Spruce		Nominal thickness range mm*)	13 - 20	> 20 - 30	> 30 - 42		> 42 - 50
1	Bending strength (panel shear)	$f_{m,0}$	NPD				EN 13986:2004+A1:2015
		$f_{m,90}$	NPD				
2	Bonding strength	f_v	SWP/1 acc. to EN 13354:2011 (pretreatment 1)				
			0,8 ≤ f_v ≤ 1,2 N/mm ² (wood failure ≥20%)				
			NPD				
3	Internal bond		NPD				
4	Durability (moisture expansion)		NPD				
5	Durability (moisture resistance)		SWP/1; 0,8 ≤ f_v ≤ 1,2 N/mm ²				
6	Release of formaldehyde	Class	E1				
7	Reaction to fire	Class	Minimum Thickness	End use condition			
		D-s2, d0	12 mm	Without air gap behind wood panel			
			15 mm	With air gap behind wood panel			
			18 mm	With air gap behind wooden material			
D-s2, d2	12 mm	With air gap closed or open and no greater than 22 mm behind wood panel					
8	Water vapour permeability μ (Species: humid/dry)	μ [1]	SPRUCE	67/193	DOUGLAS FIR	71/201	
			PINE	75/205	LARCH	78/208	
9	Airborne sound insulation R	R [dB]	24,2	26,9	29,1	31,0	
10	Sound absorption α	α [1]	0,1 (250-500 Hz)				
			0,3 (1000-2000 Hz)				
11	Thermal conductivity λ	λ [W/mK]	SPRUCE	0,12	DOUGLAS FIR	0,13	
			PINE	0,14	LARCH	0,15	
12	Biological Durability		Use class 2				
13	Content of pentachlorophenol	PCP	< 5 ppm				

*) Intermediate thicknesses possible in the nominal thickness range, performances can be linear interpolated
NPD...no property determined

10. Signed for and on behalf of the manufacturer:

Althofen, 04.06.2021

Mag. Mario Wagner
Director
TILLY Holzindustrie GesmbH





NATURHOLZPLATTEN



Declaration of Performance
according to Annex III of Regulation (EU) No. 305/2011

Document-No:
DoP06b
DoPenTILLY2021G

5layer solid wood panel softwood
as non-structural component for interior or exterior protected use in dry and humid conditions; **SWP/2 NS L5, softwood 23 – 50 mm**

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- Unique identification code of the product type:
5layer solid wood panels softwood SWP/2 NS (non-structural) L5, 23 - 50 mm
- Batch number: 7-8digit code on the longitudinal edges of the panel or pallet label (packaging)
e.g. 41 E 155 5 (codes for production plant, year and date of production, inspector)
- Intended use of the construction product as intended by the manufacturer:
SWP/2 NS L5: 5layer solid wood panel as non-structural component for interior or exterior protected use in dry and humid conditions, acc. to EN 13353
- Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**
A-9330 Althofen, Krappfelder Straße 27; office.platten@tilly.at; www.tilly.at
- Authorized representative: not applicable
- System of assessment and verification of constancy of performance of the construction product: **4**
- Name and contact of the notified body for a harmonized construction product: not applicable
- European Technical Assessment (ETA): not applicable
- Declared performance:



Significant characteristic		Performance										harm. technical specification	
SWP/2 NS L5 softwood 23-50 mm		Standard-thickness *)	23	25	27	29	32	35	42	45	48		50
1	Bending strength (panel shear)	$f_{m,0}$	NPD										EN 13986:2004+A1:2015
		$f_{m,90}$	NPD										
2	Bonding strength	f_v	SWP/2 acc. to EN 13354:2011 (pretreatment 2)										
			$0,8 \leq f_v \leq 1,2 \text{ N/mm}^2$ (wood failure $\geq 20\%$)										
3	Internal bond		NPD										
4	Durability (moisture expansion)		NPD										
5	Durability (moisture resistance)		SWP/2; $0,8 \leq f_v \leq 1,2 \text{ N/mm}^2$										
6	Release of formaldehyde	Class	E1										
7	Reaction to fire	Class	Minimum Thickness	End use condition									
		D-s2, d0	12 mm	Without air gap behind wood panel									
			15 mm	With air gap behind wood panel									
			18 mm	With air gap behind wooden material									
D-s2, d2	12 mm	With air gap closed or open and no greater than 22 mm behind wood panel											
8	Water vapour permeability μ (humid/dry)	μ [1]	67/193										
9	Airborne sound insulation R	R [dB]	27,4	27,9	28,3	28,7	29,3	29,8	30,8	31,2	31,6	31,8	
10	Sound absorption α	α [1]	0,1 (250-500 Hz)										
			0,3 (1000-2000 Hz)										
11	Thermal conductivity λ	λ [W/mK]	0,12										
12	Biological Durability		Use class 2										
13	Content of pentachlorophenol	PCP	< 5 ppm										
*) Intermediate thicknesses possible in the nominal thickness range, performances can be linear interpolated NPD...no property determined													

10. Signed for and on behalf of the manufacturer:

Althofen, 04.06.2021

Mag. Mario Wagner
Director
TILLY Holzindustrie GesmbH



 TILLY NATURHOLZPLATTEN		Declaration of Performance according to Annex III of Regulation (EU) No. 305/2011	Document-No: DoP07b DoPenTILLY2021G	
		Single layer solid wood panel softwood as non-structural component for interior or exterior protected use in dry and humid conditions; SWP/2 N L1 NC, softwood 12 – 52 mm		Version G

- Unique identification code of the product type:
Single layer solid wood panels softwood SWP/2 NS (non-structural) L1 NC, 12 - 52 mm
- Batch number: 7-8digit code on the longitudinal edges of the panel or pallet label (packaging)
e.g. 51 E 155 5 (codes for production plant, year and date of production, inspector)
- Intended use of the construction product as intended by the manufacturer:
SWP/2 NS L1 NC: single layer solid wood panel as non-structural component for interior or exterior protected use in dry and humid conditions, acc. to EN 13353
- Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**
A-9330 Althofen, Krappfelder Straße 27; office.platten@tilly.at; www.tilly.at
- Authorized representative: not applicable
- System of assessment and verification of constancy of performance of the construction product: **4**
- Name and contact of the notified body for a harmonized construction product: not applicable
- European Technical Assessment (ETA): not applicable
- Declared performance

Significant characteristic		Performance									harm. technical specification	
SWP/2 NS L1 NC softwood 12-52 mm		Standard thickness*)	14	18	21	24	27	32	42	52		
1	Bending strength (panel shear)	$f_{m,0}$	NPD									EN 13986:2004+A1:2015
		$f_{m,90}$	NPD									
2	Bonding strength	f_v	SWP/2 acc. to EN 13354:2011 (pretreatment 1)									
			$f_v \geq 2,5 \text{ N/mm}^2$ (wood failure $\geq 40\%$)									
3	Internal bond		NPD									
4	Durability (moisture expansion)		NPD									
5	Durability (moisture resistance)		SWP/2; $f_v \geq 2,5 \text{ N/mm}^2$									
6	Release of formaldehyde	Class	E1									
7	Reaction to fire	Class	Minimum Thickness	End use condition								
		D-s2, d0	12 mm	Without air gap behind wood panel								
			15 mm	With air gap behind wood panel								
			18 mm	With air gap behind wooden material								
D-s2, d2	12 mm	With air gap closed or open and no greater than 22 mm behind wood panel										
8	Water vapour permeability μ (Species: humid/dry)	μ [1]	SPRUCE 67/193		PINE 75/205		LARCH 78/208					
9	Airborne sound insulation R	R [dB]	24,6	26,1	26,9	27,7	28,3	29,3	30,8	30,8		
10	Sound absorption α	α [1]	0,1			(250-500 Hz)						
			0,3			(1000-2000 Hz)						
11	Thermal conductivity λ	λ [W/mK]	SPRUCE 0,12		PINE 0,14		LARCH 0,15					
12	Biological Durability		Use class 2									
13	Content of pentachlorophenol	PCP	< 5 ppm									

*) Intermediate thicknesses possible in the nominal thickness range, performances can be linear interpolated
NPD...no property determined

10. Signed for and on behalf of the manufacturer:

Althofen, 04.06.2021

Mag. Mario Wagner
Director
TILLY Holzindustrie GesmbH


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