



# DECLARATION 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**



**NATURHOLZPLATTEN**

**MANUFACTURER:  
TILLY Holzindustrie GesmbH**

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Althofen, June 2013

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<b>Panel densities at 20° C/65% [kg/m³]</b>			
<b>SOFTWOOD-PANELS:</b>		<b>HARDWOOD-PANELS:</b>	
SPRUCE	470 kg/m³	MAPLE	630 kg/m³
PINE	550 kg/m³	BIRCH	580 kg/m³
LARCH	580 kg/m³	BEECH	660 kg/m³
DOUGLAS FIR	510 kg/m³	OAK	650 kg/m³
SWISS STONE PINE	500 kg/m³	ALDER	490 kg/m³
FINELINE 19 mm	535 kg/m³	ASH	630 kg/m³
FINELINE 26 + 42 mm	515 kg/m³	CHERRY	550 kg/m³

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!

 <b>TILLY</b> NATURHOLZPLATTEN		<b>Declaration of Performance</b> according to Annex III of Regulation (EU) No. 305/2011		Document-No: <b>DoP01a</b>	
		<b>3layer solid wood panel softwood</b> as structural component for interior use in dry conditions <b>SWP/1 S, L3, 17 – 50 mm</b>		Version <b>B</b>	Page <b>3/24</b>

- Unique identification code of the product type:  
**3layer solid wood panels softwood SWP/1 S (structural) L3, 17-50 mm**
- Serial number: 7-8 digit code on the longitudinal edges of the panel or pallet label (packaging);  
**e.g. 41 W 251 5** (codes for production plant, year and date of production, inspector)
- Intended use of the construction product as intended by the manufacturer:  
**SWP/1 S:** 3layer solid wood panel as structural component for interior use in dry conditions, acc. to EN 13353:2011
- Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**  
A-9330 Althofen, Krappfelder Strasse 27; [office.platten@tilly.at](mailto:office.platten@tilly.at); [www.tilly.at](http://www.tilly.at)
- Authorized representative: not applicable
- System of assessment and verification of constancy of performance of the construction product: **2+**
- Name and contact of the notified body for a harmonized construction product:  
**Entwicklungs- und Prüflabor Holztechnologie GmbH D-01217 Dresden,** [www.eph-dresden.de](http://www.eph-dresden.de)  
(**identification number 0766**) performed initial type testing in accordance with system 2+ acc. to EN 13986:2004 and issued the following certificates of the factory production control:  
  
**Certificate 0766-CPR-292** for 3layer solid wood panels acc. to EN 13353:2011 as structural component for interior use in dry conditions, technical class SWP/1 S (structural), nominal thickness range 17-50 mm  
  
EPH Dresden performs the continuous surveillance, assessment and approval of the factory production control.
- European Technical Assessment (ETA): not applicable
- Declared performance:

Significant Characteristics			Performance				harm. technical specification:
SWP/1 S, L3, 17-50 mm			17-20	>20 - 30	>30 - 42	> 42 - 50	EN 13986:2004
1	Bending strength (panel shear)	Nominal thickness range mm					
		fm,0	35	30	16	12	
		fm,90	5	5	9	9	
2	Bending stiffness (modulus of elasticity)	Emk,0 *)	8500	7000	6500	6000	
		Emk,90 *)	470	470	1300	1300	
3	Bonding strength		SWP/1 acc. to EN 13354:2008				
			0,8 ≤ fv ≤ 1,2 N/mm <sup>2</sup>				
4	Internal bond		-				
5	Durability (moisture expansion)		-				
6	Release of formaldehyde	Class	E1				
7	Reaction to fire	Class	D <sub>s2,d0</sub> or D <sub>FL,s1</sub>				
8	Water vapour permeability μ (wet/ dry)	μ [1]	Spruce: 67/193		Pine: 75/205		
			Larch: 78/208		Douglas Fir: 71/201		
9	Airborne sound insulation R	R [dB]	R = 13 x lg(m <sub>A</sub> ) + 14				
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	Dougl.: 0,13	



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

Document-No:  
**DoP01a**

**3layer solid wood panel softwood**  
as structural component for interior use in dry conditions  
**SWP/1 S, L3, 17 – 50 mm**

Version  
**B**

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Significant Characteristics			Performance				harm. technical Specification:
	Strength and stiffness for structural use	Nominal thickness range mm	17-20	>20 - 30	>30 - 42	> 42 - 50	EN 13986:2004
12	Bending stiffness (MOE planar shear)	fp,0	25	14	12	10	
		fp,90	12	12	12	12	
	Bending stiffness (MOE planar shear)	Epk,0 *)	4000	2465	2040	1530	
		Epk,90 *)	2975	2975	4000	4000	
	Tensile strength	ft,0	16	9	6	6	
		ft,90	6	6	6	6	
	Tensile stiffness (MOE)	Etk,0 *)	4000	2975	2040	2040	
		Etk,90 *)	2465	2465	2465	2465	
	compression strength	fc,0	16	16	10	10	
		fc,90	10	10	16	16	
	Shear strength (panel shear)	fv,0	4	4	3,5	2,5	
		fv,90	5	3,5	2,5	2	
shear modulus (panel shear)	Gvk, 0 *)	400	400	400	400		
	Gvk,90 *)	400	400	400	400		
shear strength (planar shear)	fr,0	1,6	1,6	1,2	1,2		
	fr,90	1,4	1,4	1,4	1,4		
shear modulus (planar shear)	Grk,0 *)	35	35	35	35		
	Grk,90 *)	35	35	35	35		
13	Mechanical durability kmod (modification coefficient)	kmod [1]	continuous impact		0,6		
			long impact		0,7		
			medium impact		0,8		
			short impact		0,9		
			very short impact		1,1		
	kdef (deformation coefficient)	kdef [1]	Class of Use 1		0,7		
14	Biological Durability		Use class 1				
15	Content of pentachlorophenol	PCP	< 5 ppm				

\*) All E-modules are specified as 5 % of the characteristic value  $E_k(5\%) = E \times 0.85$

Note: The fire reaction class D-s2, d0 is valid for all applications for panels fixed directly onto a material class A1 or A2-s,d0 with minimum density of 10 kg/m<sup>3</sup> or at least class D-s2, s0 with a minimum density of 400 kg/m<sup>3</sup> without clearance. Minimum density > 400 kg/m<sup>3</sup>, minimum thickness > 12 mm

10. Herewith, TILLY Holzindustrie GesmbH declares that the performances of product identified in points 1 and 2 conform to the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

11. The products manufactured by TILLY are not subject to REACH registration.

Place and date of issue:

Manufacturer:

Althofen, 01.07.2013

  
Ing. Gerd L. Tilly  
Managing Partner  
TILLY Holzindustrie GmbH



CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL

**0766 – CPR – 292**

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or 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 dry conditions, technical class SWP/1 S L3 (load bearing)**  
**nominal thickness range 17 to 50 mm**

produced by  
**TILLY HOLZINDUSTRIE Ges. m. b. H.**  
**Krappfelder Str. 27**  
**9330 Treibach, Austria**

and produced in the manufacturing plant  
**TILLY HOLZINDUSTRIE Ges. m. b. H., Treibach, Austria**

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

**EN 13 986:2004**

under system 2+ are applied and that

the factory production control fulfils all the prescribed requirements set out above.



This certificate was first issued on 24 January 2012 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonised 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, 13 January 2014





Date

Dr. Bernd Devantier  
Notified Certification Body

 <b>TILLY</b> NATURHOLZPLATTEN		<b>Declaration of Performance</b> according to Annex III of Regulation (EU) No. 305/2011		Document-No: <b>DoP01b</b>	
		<b>3layer solid wood panel softwood</b> as structural component for interior use in wet conditions <b>SWP/2 S, L3, 17 – 50 mm</b>		Version <b>B</b>	Page <b>6/24</b>

- Unique identification code of the product type:  
**3layer solid wood panels softwood SWP/2 S (structural) L3, 17-50 mm**
- Serial number: 7-8 digit code on the longitudinal edges of the panel or pallet label (packaging);  
**e.g. 41 W 251 5** (codes for production plant, year and date of production, inspector)
- Intended use of the construction product as intended by the manufacturer:  
**SWP/2 S:** 3layer solid wood panel as structural component for interior use in wet conditions, acc. to EN 13353:2011
- Name and address of the manufacturer: **TILLY Holzindustrie GesmbH**;  
A-9330 Althofen, Krappfelder Strasse 27; [office.platten@tilly.at](mailto:office.platten@tilly.at); [www.tilly.at](http://www.tilly.at)
- Authorized representative: not applicable
- System of assessment and verification of constancy of performance of the construction product: **2+**
- Name and contact of the notified body for a harmonized construction product:  
**Entwicklungs- und Prüflabor Holztechnologie GmbH D-01217 Dresden**, [www.eph-dresden.de](http://www.eph-dresden.de)  
(**identification number 0766**) performed initial type testing in accordance with system 2+ acc. to EN 13986:2004 and issued the following certificates of the factory production control:  
**Certificate 0766-CPR-293** for 3layer solid wood panels acc. to EN 13353:2011 as structural component for interior use in wet conditions, technical class SWP/2 S (structural), nominal thickness range 17-50 mm  
EPH Dresden performs the continuous surveillance, assessment and approval of the factory production control.
- European Technical Assessment (ETA): not applicable
- Declared performance:

Significant Characteristics			Performance				harm. technical Specification:
SWP/2 S, L3, 17-50 mm		Nominal thickness range mm	17-20	>20 - 30	>30 - 42	> 42 - 50	EN 13986:2004
1	Bending strength (panel shear)	fm,0	35	30	16	12	
		fm,90	5	5	9	9	
2	Bending stiffness (modulus of elasticity) Emk (5%)= Ems x 0,85	Emk,0 *)	8500	7000	6500	6000	
		Emk,90 *)	470	470	1300	1300	
3	Bonding strength	SWP/2 acc. to EN 13354:2008 $0,8 \leq f_v \leq 1,2 \text{ N/mm}^2 (\geq 20\%)$					
4	Internal bond	-					
5	Durability (moisture expansion)	-					
6	Durability (moisture resistance)	SWP/2; $0,8 \leq f_v \leq 1,2 \text{ N/mm}^2$					
7	Release of formaldehyde	Class	E1				
8	Reaction to fire	Class	$D_{s2,d0}$ or $D_{FL,s1}$				
9	Water vapour permeability $\mu$ (species: wet/ dry)	$\mu$ [1]	Spruce: 67/193		Pine: 75/205		
			Larch: 78/208		Douglas Fir: 71/201		
10	Airborne sound insulation R	R [dB]	$R = 13 \times \lg(m_A) + 14$				
11	Sound absorption $\alpha$	$\alpha$ [1]	0,1 ( 250-500 Hz)				
			0,3 (1000-2000 Hz)				
12	Thermal conductivity $\lambda$	$\lambda$ [W/mK]	Spruce: 0,12	Pine: 0,14	Larch: 0,15	Dougl.: 0,13	

 <b>TILLY</b> NATURHOLZPLATTEN		<b>Declaration of Performance</b> according to Annex III of Regulation (EU) No. 305/2011		Document-No: <b>DoP01b</b>	
		<b>3layer solid wood panel softwood</b> as structural component for interior use in wet conditions <b>SWP/2 S, L3, 17 – 50 mm</b>		Version <b>B</b>	Page <b>7/24</b>

Significant Characteristics			Performance				harm. technical Specification::	
	Strength and stiffness for structural use	Nominal thickness range mm	17-20	>20 - 30	>30 - 42	> 42 - 50		
			13	Bending strength (planar shear)	fp,0 fp,90	25 12		14 12
	Bending stiffness (MOE planar shear)	Epk,0 *) Epk,90 *)	4000 2975	2465 2975	2040 4000	1530 4000		
	Tensile strength	ft,0 ft,90	16 6	9 6	6 6	6 6		
	Tensile stiffness (MOE)	Etk,0 *) Etk,90 *)	4000 2465	2975 2465	2040 2465	2040 2465		
	compression strength	fc,0 fc,90	16 10	16 10	10 16	10 16		
	Shear strength (panel shear)	fv,0 fv,90	4 5	4 3,5	3,5 2,5	2,5 2		
	shear modulus (panel shear)	Gvk, 0 *) Gvk,90 *)	400 400	400 400	400 400	400 400		
	shear strength (planar shear)	fr,0 fr,90	1,6 1,4	1,6 1,4	1,2 1,4	1,2 1,4		
	shear modulus (planar shear)	Grk,0 *) Grk,90 *)	35 35	35 35	35 35	35 35		
	Mechanical durability kmod (modification coefficient)	kmod [1]	continuous impact 0,6					
			long impact 0,7					
			medium impact 0,8					
			short impact 0,9					
			very short impact 1,1					
	kdef (deformation coefficient)	kdef [1]	Class of use 2:				0,9	
15	Biological Durability		Use class 2					
16	Content of pentachlorophenol	PCP	< 5 ppm					

\*) All E-modules are specified as 5 % of the characteristic value  $E_k(5\%) = E \times 0.85$

Note: The fire reaction class D-s2, d0 is valid for all applications for panels fixed directly onto a material class A1 or A2-s,d0 with minimum density of 10 kg/m<sup>3</sup> or at least class D-s2, s0 with a minimum density of 400 kg/m<sup>3</sup> without clearance. Minimum density > 400 kg/m<sup>3</sup>, minimum thickness > 12 mm

10. Herewith, TILLY Holzindustrie GesmbH declares that the performances of product identified in points 1 and 2 conform to the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

11. The products manufactured by TILLY are not subject to REACH registration.

Place and date of issue:

Althofen, 01.07.2013

Manufacturer:

  
 Ing. Gerd L. Tilly  
 Managing Partner  
 TILLY Holzindustrie GmbH





CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL

**0766 – CPR – 293**

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or 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 50 mm**

produced by  
**TILLY HOLZINDUSTRIE Ges. m. b. H.**  
**Krappenfelder Str. 27**  
**9330 Treibach, Austria**

and produced in the manufacturing plant  
**TILLY HOLZINDUSTRIE Ges. m. b. H., Treibach, Austria**

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

**EN 13 986:2004**

under system 2+ are applied and that

the factory production control fulfils all the prescribed requirements set out above.

This certificate was first issued on 24 January 2012 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonised 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, 13 January 2014



Date

Dr. Bernd Devantier  
Notified Certification Body



 <b>TILLY</b> NATURHOLZPLATTEN		<b>Declaration of Performance</b> according to Annex III of Regulation (EU) No. 305/2011		Document-No: <b>DoP02a</b>	
		<b>3layer solid wood panel softwood</b> as non-structural component for interior use in dry conditions <b>SWP/1 NS, L3, 13 16 mm, Stone pine 19 – 26 mm</b>			Version <b>B</b>

1. Unique identification code of the product type:  
**3layer solid wood panels softwood SWP/1 NS(non-structural) L3,13-16mm,Swiss stone pine 19-26mm**
2. Serial number: digit code on the longitudinal edges of the panel or pallet label (packaging); **z.B. 41 W 251 5**  
 (codes for production plant, year and date of production, inspector)
3. Intended use of the construction product as intended by the manufacturer:  
**SWP/1 NS:** 3layer solid wood panel as structural component for interior use in dry conditions, acc. to EN 13353:2011
4. Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**  
 A-9330 Althofen, Krappfelder Strasse 27; [office.platten@tilly.at](mailto:office.platten@tilly.at); [www.tilly.at](http://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 (ETB): not applicable
9. Declared performance:

Significant Characteristics			Performance					harm. technical specification:	
SWP/1 NS L3 13-16mm, Swiss stone pine 19-26 mm			Standard-thickness*)	13	15	16	19	26	EN 13986:2004
1	Bending strength (panel shear)	fm,0	NPD						
		fm,90	NPD						
2	Bonding strength	fv	SWP/1 acc. to EN 13354:2008						
			$0,8 \leq fv \leq 1,2 \text{ N/mm}^2$						
3	Internal bond		-						
4	Release of formaldehyde	Class	E1						
5	Reaction to fire	Class	$D_{s2,d0}$ or $D_{FL,s1}$						
6	Water vapour permeability $\mu$ (species: wet/dry)	$\mu$ [1]	SPRUCE	67/193	LARCH	78/208			
			PINE	75/205	DOUGLAS FIR	71/201			
			SWISS STONE PINE		70/200				
7	Airborne sound insulation R	R [dB]	$R = 13 \times \lg(m_A) + 14$						
8	Sound absorption $\alpha$	$\alpha$ [1]	0,1 (250-500 Hz)						
			0,1 (1000-2000 Hz)						
9	Thermal conductivity $\lambda$	$\lambda$ [W/mK]	SPRUCE	0,12	LARCH	0,15			
			PINE	0,14	DOUGLAS FIR	0,13			
			SWISS STONE PINE		0,13				
10	Biological Durability		Use class 1						
11	Content of pentachlorophenol	PCP	< 5 ppm						

\*) Intermediate thicknesses possible in the nominal thickness range, performances can be linear interpolated  
 Note: The fire reaction class D-s2, d0 is valid for all applications for panels fixed directly onto a material class A1 or A2-s,d0 with minimum density of 10 kg/m<sup>3</sup> or at least class D-s2, s0 with a minimum density of 400 kg/m<sup>3</sup> without clearance. Minimum density > 400 kg/m<sup>3</sup>, minimum thickness > 12 mm

10. Herewith, TILLY Holzindustrie GesmbH declares that the performances of product identified in points 1 and 2 conform to the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.



11. The products manufactured by TILLY are not subject to REACH registration..

Place and date of issue:

Manufacturer:

Althofen, 01.07.2013

  
 Ing. Gerd L. Tilly  
 Managing Partner  
 TILLY Holzindustrie GmbH

 <b>TILLY</b> NATURHOLZPLATTEN		<b>Declaration of Performance</b> according to Annex III of Regulation (EU) No. 305/2011		Document-No: <b>DoP02b</b>	
		<b>3layer solid wood panel softwood</b> as non-structural component for interior use in wet conditions <b>SWP/2 NS, L3, 13 – 16 mm, Stone pine 19 – 26 mm</b>			Version <b>B</b>

- Unique identification code of the product type:  
**3layer solid wood panels softwood SWP/2 NS(non-structural) L3,13-16mm,Swiss stone pine 19-26mm**
- Serial number: digit code on the longitudinal edges of the panel or pallet label (packaging); **z.B. 41 W 251 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:** 3layer solid wood panel as non structural component for interior use in wet conditions, acc. to EN 13353:2011
- Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**  
 A-9330 Althofen, Krappfelder Strasse 27; [office.platten@tilly.at](mailto:office.platten@tilly.at); [www.tilly.at](http://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 L 13-16 mm, swiss stone pine 19-26 mm		Standard thickness *)	13	15	16	19	26	
1	Bending strength (panel shear)	fm,0	NPD					EN 13986:2004
		fm,90	NPD					
2	Bonding strength	fv	SWP/2 acc. to EN 13354:2008					
			$0,8 \leq fv \leq 1,2 \text{ N/mm}^2$					
3	Internal bond		-					
4	Durability (moisture expansion)		-					
5	Durability (moisture resistance)		SWP/2; $0,8 \leq fv \leq 1,2 \text{ N/mm}^2$					
6	Release of formaldehyde	Class	E1					
7	Reaction to fire	Class	D <sub>s2,d0</sub> or D <sub>FL,s1</sub>					
8	Water vapour permeability $\mu$ (species: wet/dry)	$\mu$ [1]	SPRUCE	67/193	DOUGLAS FIR	71/201		
			PINE	75/205	SWISS STONE PINE	70/200		
			LARCH	78/208				
9	Airborne sound insulation R	R [dB]	$R = 13 \times \lg(m_A) + 14$					
10	Sound absorption $\alpha$	$\alpha$ [1]	0,1 (250-500 Hz)					
			0,1 (1000-2000 Hz)					
11	Thermal conductivity $\lambda$	$\lambda$ [W/mK]	SPRUCE	0,12	DOUGLAS FIR	0,13		
			PINE	0,14	SWISS STONE PINE	0,13		
			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  
 Note: The fire reaction class D-s2, d0 is valid for all applications for panels fixed directly onto a material class A1 or A2-s,d0 with minimum density of 10 kg/m<sup>3</sup> or at least class D-s2, s0 with a minimum density of 400 kg/m<sup>3</sup> without clearance. Minimum density > 400 kg/m<sup>3</sup>, minimum thickness > 12 mm

10. Herewith, TILLY Holzindustrie GesmbH declares that the performances of product identified in points 1 and 2 conform to the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.



11. The products manufactured by TILLY are not subject to REACH registration..

Place and date of issue:

Manufacturer:

Althofen, 01.07.2013

  
 Ing. Gerd L. Tilly  
 Managing Partner  
 TILLY Holzindustrie GmbH

 <b>TILLY</b> NATURHOLZPLATTEN		<b>Declaration of Performance</b> according to Annex III of Regulation (EU) No. 305/2011		Document-No: <b>DoP03a</b>	
		<b>3layer solid wood panel hardwood</b> as non-structural component for interior use in dry conditions <b>SWP/1 NS, L3, 20 – 26 mm</b>			Version <b>B</b>

1. Unique identification code of the product type:  
**3layer solid wood panels hardwood SWP/1 NS (non-structural) L3, 20-26 mm**
2. Serial number: 7-8 digit code on the longitudinal edges of the panel or pallet label (packaging);  
**e.g. 41 W 251 5** (codes for production plant, year and date of production, inspector)
3. Intended use of the construction product as intended by the manufacturer:  
**SWP/1 NS:** 3layer solid wood panel as non structural component for interior use in dry conditions, acc. to EN 13353:2011
4. Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**  
 A-9330 Althofen, Krappfelder Strasse 27; [office.platten@tilly.at](mailto:office.platten@tilly.at); [www.tilly.at](http://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/1 NS L3 20-26 mm		Standard thickness *)	20	26	EN 13986:2004
1	Bending strength (panel shear)	fm,0	NPD		
		fm,90	NPD		
2	Bonding strength	fv	SWP/1 acc. to EN 13354:2008 0,8 ≤ fv ≤ 1,2 N/mm <sup>2</sup>		
3	Internal bond		-		
4	Release of formaldehyde	Class	E1		
5	Reaction to fire	Class	D <sub>s2,d0</sub> or D <sub>FL,s1</sub>		
6	Water vapour permeability μ (species: wet/dry)	μ [1]	MAPLE 83/213	ALDER 69/198	
			BIRCH 78/208	ASH 83/213	
			BEECH 86/216	CHERRY 75/205	
			OAK 85/215		
7	Airborne sound insulation R	R [dB]	R = 13 x lg(m <sub>A</sub> ) + 14		
8	Sound absorption α	α [1]	0,1 (250-500 Hz)		
			0,1 (1000-2000 Hz)		
9	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		
10	Biological Durability		Use class 1		
11	Content of pentachlorophenol	PCP	< 5 ppm		



\*) Intermediate thicknesses possible in the nominal thickness range, performances can be linear interpolated  
 Note: The fire reaction class D-s2, d0 is valid for all applications for panels fixed directly onto a material class A1 or A2-s,d0 with minimum density of 10 kg/m<sup>3</sup> or at least class D-s2, s0 with a minimum density of 400 kg/m<sup>3</sup> without clearance. Minimum density > 400 kg/m<sup>3</sup>, minimum thickness > 12 mm

10. Herewith, TILLY Holzindustrie GesmbH declares that the performances of product identified in points 1 and 2 conform to the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

11. The products manufactured by TILLY are not subject to REACH registration.

Place and date of issue: **Althofen, 01.07.2013**

Manufacturer:   
 Ing. Gerd L. Tilly  
 Managing Partner  
 TILLY Holzindustrie GmbH

 <b>TILLY</b> NATURHOLZPLATTEN		<b>Declaration of Performance</b> according to Annex III of Regulation (EU) No. 305/2011		Document-No: <b>DoP03b</b>	
		<b>3layer solid wood panel hardwood</b> as non-structural component for interior use in wet conditions <b>SWP/2 NS, L3, 20 – 26 mm</b>			Version <b>B</b>

- Unique identification code of the product type:  
**3layer solid wood panels hardwood SWP/2 NS (non-structural) L3, 20-26 mm**
- Serial number: 7-8 digit code on the longitudinal edges of the panel or pallet label (packaging);  
**e.g. 41 W 251 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: 3layer solid wood panel as non structural component for interior use in wet conditions, acc. to EN 13353:2011**
- Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**  
A-9330 Althofen, Krappfelder Strasse 27; [office.platten@tilly.at](mailto:office.platten@tilly.at); [www.tilly.at](http://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 20 – 26 mm		Standard thickness *)	20	26	
1	Bending strength (panel shear)	fm,0	NPD		EN 13986:2004
		fm,90	NPD		
2	Bonding strength		SWP/2 acc. to EN 13354:2008		
			$0,8 \leq f_v \leq 1,2 \text{ N/mm}^2$		
3	Internal bond		-		
4	Durability (moisture expansion)		-		
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	D <sub>s2,d0</sub> or D <sub>FL,s1</sub>		
8	Water vapour permeability $\mu$ (Species: wet/dry)	$\mu$ [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]	R = 13 x lg(m <sub>A</sub> ) + 14		
10	Sound absorption $\alpha$	$\alpha$ [1]	0,1 (250-500 Hz)		
			0,1 (1000-2000 Hz)		
11	Thermal conductivity $\lambda$	$\lambda$ [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		

\*) Intermediate thicknesses possible in the nominal thickness range, performances can be linear interpolated  
 Note: The fire reaction class D-s2, d0 is valid for all applications for panels fixed directly onto a material class A1 or A2-s,d0 with minimum density of 10 kg/m<sup>3</sup> or at least class D-s2, s0 with a minimum density of 400 kg/m<sup>3</sup> without clearance. Minimum density > 400 kg/m<sup>3</sup>, minimum thickness > 12 mm

10. Herewith, TILLY Holzindustrie GesmbH declares that the performances of product identified in points 1 and 2 conform to the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.



11. The products manufactured by TILLY are not subject to REACH registration.

Place and date of issue:

Manufacturer:

Althofen, 01.07.2013

  
 Ing. Gerd L. Tilly  
 Managing Partner  
 TILLY Holzindustrie GmbH

 <b>TILLY</b> NATURHOLZPLATTEN		<b>Declaration of Performance</b> according to Annex III of Regulation (EU) No. 305/2011		Document-No: <b>DoP04a</b>	
		<b>3layer solid wood panel SPRUCE 3S FINELINE</b> as non-structural component for interior use in dry conditions <b>SWP/1 NS, L3, 19 – 42 mm FINELINE</b>			Version <b>B</b>

- Unique identification code of the product type:  
**3layer solid wood panel Spruce 3s FINELINE SWP/1 NS (non-structural) L3, 19 - 42 mm**
- Serial number: 7-8 digit code on the longitudinal edges of the panel or pallet label (packaging);  
**e.g. 41 W 251 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:** 3layer solid wood panel as non structural component for interior use in dry conditions, acc. to EN 13353:2011
- Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**  
A-9330 Althofen, Krappfelder Strasse 27; [office.platten@tilly.at](mailto:office.platten@tilly.at); [www.tilly.at](http://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	
<b>SWP/1 NS L3 19-42 mm FINELINE</b>		Standard thickness	<b>19</b>	<b>26</b>	<b>42</b>	<b>EN 13986:2004</b>
<b>1</b>	Bending strength (panel shear)	fm,0	NPD			
		fm,90	NPD			
<b>2</b>	Bonding strength	fv	SWP/1 acc. to EN 13354:2008 0,8 ≤ fv ≤ 1,2 N/mm <sup>2</sup>			
<b>3</b>	Internal bond		-			
<b>4</b>	Release of formaldehyde	Class	E1			
<b>5</b>	Reaction to fire	Class	D <sub>s2,d0</sub> or D <sub>FL,s1</sub>			
<b>6</b>	Water vapour permeability μ (wet/dry)	μ [1]	74/203	71/201	71/201	
<b>7</b>	Airborne sound insulation R	R [dB]	27,1	28,6	31,4	
<b>8</b>	Sound absorption α	α [1]	0,1 (250-500 Hz)			
			0,1 (1000-2000 Hz)			
<b>9</b>	Thermal conductivity λ	λ [W/mK]	0,13			
<b>10</b>	Biological Durability		Use class 1			
<b>11</b>	Content of pentachlorophenol	PCP	< 5 ppm			

\*) Intermediate thicknesses possible in the nominal thickness range, performances can be linear interpolated  
 Note: The fire reaction class D-s2, d0 is valid for all applications for panels fixed directly onto a material class A1 or A2-s,d0 with minimum density of 10 kg/m<sup>3</sup> or at least class D-s2, s0 with a minimum density of 400 kg/m<sup>3</sup> without clearance. Minimum density > 400 kg/m<sup>3</sup>, minimum thickness > 12 mm

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Place and date of issue:

Manufacturer:

Althofen, 01.07.2013

  
 Ing. Gerd L. Tilly  
 Managing Partner  
 TILLY Holzindustrie GmbH

 <b>TILLY</b> NATURHOLZPLATTEN		<b>Declaration of Performance</b> according to Annex III of Regulation (EU) No. 305/2011		Document-No: <b>DoP04b</b>	
		<b>3layer solid wood panel SPRUCE 3S FINELINE</b> as non-structural component for interior use in wet conditions <b>SWP/2 NS, L3, 19 – 42 mm FINELINE</b>			Version <b>B</b>

- Unique identification code of the product type:  
**3layer solid wood panel Spruce 3s FINELINE SWP/2 NS (non-structural) L3, 19 - 42 mm**
- Serial number: 7-8 digit code on the longitudinal edges of the panel or pallet label (packaging);  
**e.g. 41 W 251 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:** 3layer solid wood panel as non structural component for interior use in wet conditions, acc. to EN 13353:2011
- Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**  
A-9330 Althofen, Krappfelder Strasse 27; [office.platten@tilly.at](mailto:office.platten@tilly.at); [www.tilly.at](http://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 19-42 mm FINELINE		Standard thickness	19	26	42	EN 13986:2004
1	Bending strength (panel shear)	fm,0	NPD			
		fm,90	NPD			
2	Bonding strength	fv	SWP/2 acc. to EN 13354:2008 $0,8 \leq f_v \leq 1,2 \text{ N/mm}^2$			
3	Internal bond		-			
4	Durability (moisture expansion)		-			
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	D <sub>s2,d0</sub> or D <sub>FL,s1</sub>			
8	Water vapour permeability $\mu$ (wet/dry)	$\mu$ [1]	74/203	71/201	71/201	
9	Airborne sound insulation R	R [dB]	27,1	28,6	31,4	
10	Sound absorption $\alpha$	$\alpha$ [1]	0,1 (250-500 Hz)			
			0,1 (1000-2000 Hz)			
11	Thermal conductivity $\lambda$	$\lambda$ [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  
 Note: The fire reaction class D-s2, d0 is valid for all applications for panels fixed directly onto a material class A1 or A2-s,d0 with minimum density of 10 kg/m<sup>3</sup> or at least class D-s2, s0 with a minimum density of 400 kg/m<sup>3</sup> without clearance. Minimum density > 400 kg/m<sup>3</sup>, minimum thickness > 12 mm

10. Herewith, TILLY Holzindustrie GesmbH declares that the performances of product identified in points 1 and 2 conform to the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

11. The products manufactured by TILLY are not subject to REACH registration.



Place and date of issue:

Althofen, 01.07.2013

Manufacturer:

  
 Ing.: Gerd L. Tilly  
 Managing Partner  
 TILLY Holzindustrie GmbH



		<b>Declaration of Performance</b> according to Annex III of Regulation (EU) No. 305/2011		Document-No: <b>DoP05a</b>	
		<b>3layer solid wood panel softwood formaldehyde-free bonded</b> as non-structural component for interior use in dry conditions <b>SWP/1 NS, L3, 13 – 50 mm formaldehyde-free</b>			

1. Unique identification code of the product type:  
**3layer solid wood panels softwood SWP/1 NS (non-structural) L3, 13 - 50 mm, formaldehyde-free bonded**
2. Serial number: 7-8 digit code on the longitudinal edges of the panel or pallet label (packaging);  
**e.g. 41 W 251 5** (codes for production plant, year and date of production, inspector)
3. Intended use of the construction product as intended by the manufacturer:  
**SWP/1 NS:** 3layer solid wood panel as non structural component for interior use in dry conditions, acc. to EN 13353:2011
4. Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**  
 A-9330 Althofen, Krappfelder Strasse 27; [office.platten@tilly.at](mailto:office.platten@tilly.at); [www.tilly.at](http://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/1 NS L3 13-50 mm glued free of formaldehyde		Nominal thickness range mm	13 - 20	> 20 - 30	> 30 - 42	> 42 - 50	
1	Bending strength (panel shear)	fm,0	NPD				EN 13986:2004
		fm,90	NPD				
2	Bonding strength	fv	SWP/1 acc. to EN 13354:2008 0,8 ≤ fv ≤ 1,2 N/mm <sup>2</sup>				
3	Internal bond		-				
4	Release of formaldehyde	Class	E1				
5	Reaction to fire	Class	D <sub>s2,d0</sub> or D <sub>FL,s1</sub>				
6	Water vapour permeability μ (Species: wet/dry)	μ [1]	SPRUCE 67/193	DOUGLAS FIR 71/201			
			PINE 75/205	LARCH 78/208			
			SWISS STONE PINE 70/200				
7	Airborne sound insulation R	R [dB]	R = 13 x lg(mA)+14				
8	Sound absorption α	α [1]	0,1 (250-500 Hz)				
			0,1 (1000-2000 Hz)				
9	Thermal conductivity λ	λ [W/mK]	SPRUCE 0,12	DOUGLAS FIR 0,13			
			PINE 0,14	LARCH 0,15			
			SWISS STONE PINE 0,13				
10	Biological Durability		Use class 1				
11	Content of pentachlorophenol	PCP	< 5 ppm				

Note: The fire reaction class D-s2, d0 is valid for all applications for panels fixed directly onto a material class A1 or A2-s,d0 with minimum density of 10 kg/m<sup>3</sup> or at least class D-s2, s0 with a minimum density of 400 kg/m<sup>3</sup> without clearance. Minimum density > 400 kg/m<sup>3</sup>, minimum thickness > 12 mm

10. Herewith, TILLY Holzindustrie GesmbH declares that the performances of product identified in points 1 and 2 conform to the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

11. The products manufactured by TILLY are not subject to REACH registration.



Place and date of issue:

Manufacturer:

Althofen, 01.07.2013

  
 Ing. Gerd L. Tilly  
 Managing Partner  
 TILLY Holzindustrie GmbH



		<b>Declaration of Performance</b> according to Annex III of Regulation (EU) No. 305/2011		Document-No: <b>DoP05b</b>	
		<b>3layer solid wood panel softwood formaldehyde-free bonded</b> as non-structural component for interior use in wet conditions <b>SWP/2 NS, L3, 13 – 50 mm formaldehyde-free</b>			

1. Unique identification code of the product type:  
**3layer solid wood panels softwood SWP/2 NS (non-structural) L3, 13 - 50 mm, formaldehyde-free bonded**
2. Serial number: 7-8 digit code on the longitudinal edges of the panel or pallet label (packaging);  
**e.g. 41 W 251 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:** 3layer solid wood panel as non structural component for interior use in wet conditions, acc. to EN 13353:2011
4. Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**  
 A-9330 Althofen, Krappfelder Strasse 27; [office.platten@tilly.at](mailto:office.platten@tilly.at); [www.tilly.at](http://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. tech. specification	
SWP/2 NS L3 13-50 mm glued free of formaldehyde		Nominal thickness range mm	13 - 20	> 20 - 30	> 30 - 42	> 42 - 50	
1	Bending strength (panel shear)	fm,0	NPD				EN 13986:2004
		fm,90	NPD				
2	Bonding strength	fv	SWP/2 acc. to EN 13354:2008 0,8 ≤ fv ≤ 1,2 N/mm <sup>2</sup>				
3	Internal bond		-				
4	Durability (moisture expansion)		-				
5	Durability (moisture resistance)		SWP/2; 0,8 ≤ fv ≤ 1,2 N/mm <sup>2</sup>				
6	Release of formaldehyde	Class	E1				
7	Reaction to fire	Class	D <sub>s2,d0</sub> or D <sub>FL,s1</sub>				
8	Water vapour permeability μ (Species: wet/dry)	μ [1]	SPRUCE	67/193	DOUGLAS FIR	71/201	
			PINE	75/205	STONE PINE	70/200	
			LARCH	78/208			
9	Airborne sound insulation R	R [dB]	R = 13 x lg(mA) + 14				
10	Sound absorption α	α [1]	0,1 (250-500 Hz)				
			0,1 (1000-2000 Hz)				
11	Thermal conductivity λ	λ [W/mK]	SPRUCE	0,12	DOUGLAS FIR	0,13	
			PINE	0,14	STONE PINE	0,13	
			LARCH	0,15			
12	Biological Durability		Use class 2				
13	Content of pentachlorophenol	PCP	< 5 ppm				

Note: The fire reaction class D-s2, d0 is valid for all applications for panels fixed directly onto a material class A1 or A2-s,d0 with minimum density of 10 kg/m<sup>3</sup> or at least class D-s2, s0 with a minimum density of 400 kg/m<sup>3</sup> without clearance. Minimum density > 400 kg/m<sup>3</sup>, minimum thickness > 12 mm

10. Herewith, TILLY Holzindustrie GesmbH declares that the performances of product identified in points 1 and 2 conform to the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.



11. The products manufactured by TILLY are not subject to REACH registration.

Place and date of issue:

Manufacturer:

Althofen, 01.07.2013

  
 Ing. Gerd L. Tilly  
 Managing Partner  
 TILLY Holzindustrie GmbH

 <b>TILLY</b> NATURHOLZPLATTEN		<b>Declaration of Performance</b> according to Annex III of Regulation (EU) No. 305/2011		Document-No: <b>DoP06a</b>	
		<b>5layer solid wood panel softwood</b> as non-structural component for interior use in dry conditions <b>SWP/1 NS, L5, 23 – 50 mm</b>		Version <b>B</b>	Page 17/24

- Unique identification code of the product type:  
**5layer solid wood panels softwood SWP/1 NS (non-structural) L5, 23 - 50 mm**
- Serial number: 7-8 digit code on the longitudinal edges of the panel or pallet label (packaging);  
**e.g. 41 W 251 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:** 3layer solid wood panel as non structural component for interior use in dry conditions, acc. to EN 13353:2011
- Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**  
A-9330 Althofen, Krappfelder Strasse 27; [office.platten@tilly.at](mailto:office.platten@tilly.at); [www.tilly.at](http://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 L5 23-50 mm		Standard-thickness*)	23	25	27	29	32	35	42	45	48	50	EN 13986:2004	
1	Bending strength (panel shear)	fm,0	NPD											
		fm,90	NPD											
2	Bonding strength	fv	SWP/1 acc. to EN 13354:2008 $0,8 \leq f_v \leq 1,2 \text{ N/mm}^2$											
3	Internal bond		-											
4	Release of formaldehyde	Class	E1											
5	Reaction to fire	Class	$D_{s2,d0}$ or $D_{FL,s1}$											
6	Wasserdampfdurchlässigkeit $\mu$ (wet/dry)	$\mu$ [1]	67/193											
7	Airborne sound insulation R $R = 13 \times \lg(m_A) + 14$	R [dB]	27,4	27,9	28,3	28,7	29,3	29,8	30,8	31,2	31,6	31,8		
8	Sound absorption $\alpha$	$\alpha$ [1]	0,1 (250-500 Hz)											
			0,1 (1000-2000 Hz)											
9	Thermal conductivity $\lambda$	$\lambda$ [W/mK]	0,12											
10	Biological Durability		Use class 1											
11	Content of pentachlorophenol	PCP	< 5 ppm											

\*) Intermediate thicknesses possible in the nominal thickness range, performances can be linear interpolated  
 Note: The fire reaction class D-s2, d0 is valid for all applications for panels fixed directly onto a material class A1 or A2-s,d0 with minimum density of 10 kg/m<sup>3</sup> or at least class D-s2, s0 with a minimum density of 400 kg/m<sup>3</sup> without clearance. Minimum density > 400 kg/m<sup>3</sup>, minimum thickness > 12 mm

10. Herewith, TILLY Holzindustrie GesmbH declares that the performances of product identified in points 1 and 2 conform to the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.



11. The products manufactured by TILLY are not subject to REACH registration.

Place and date of issue:

Althofen, 01.07.2013

Manufacturer:

  
 Ing. Gerd L. Tilly  
 Managing Partner  
 TILLY Holzindustrie GmbH

 <b>TILLY</b> NATURHOLZPLATTEN		<b>Declaration of Performance</b> according to Annex III of Regulation (EU) No. 305/2011		Document-No: <b>DoP06b</b>	
		<b>5layer solid wood panel softwood</b> as non-structural component for interior use in wet conditions <b>SWP/2 NS, L5, 23 – 50 mm</b>			Version <b>B</b>

- Unique identification code of the product type:  
**5layer solid wood panels softwood SWP/2 NS (non-structural) L5, 23 - 50 mm**
- Serial number: 7-8 digit code on the longitudinal edges of the panel or pallet label (packaging);  
**e.g. 41 W 251 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:** 3layer solid wood panel as non structural component for interior use in wet conditions, acc. to EN 13353:2011
- Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**  
A-9330 Althofen, Krappfelder Strasse 27; [office.platten@tilly.at](mailto:office.platten@tilly.at); [www.tilly.at](http://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 23-50 mm		Standard-thickness *)	23	25	27	29	32	35	42	45	48	50	EN 13986:2004
1	Bending strength (panel shear)	fm,0	NPD										
		fm,90	NPD										
2	Bonding strength	fv	SWP/2 acc. to EN 13354:2008 $0,8 \leq f_v \leq 1,2 \text{ N/mm}^2$										
3	Internal bond		-										
4	Durability (moisture expansion)		-										
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	$D_{s2,d0}$ or $D_{FL,s1}$										
8	Water vapour permeability $\mu$ (wet/dry)	$\mu$ [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 $\alpha$	$\alpha$ [1]	0,1 (250-500 Hz)										
			0,1 (1000-2000 Hz)										
11	Thermal conductivity $\lambda$	$\lambda$ [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  
 Note: The fire reaction class D-s2, d0 is valid for all applications for panels fixed directly onto a material class A1 or A2-s,d0 with minimum density of 10 kg/m<sup>3</sup> or at least class D-s2, s0 with a minimum density of 400 kg/m<sup>3</sup> without clearance. Minimum density > 400 kg/m<sup>3</sup>, minimum thickness > 12 mm

10. Herewith, TILLY Holzindustrie GesmbH declares that the performances of product identified in points 1 and 2 conform to the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

11. The products manufactured by TILLY are not subject to REACH registration.

Place and date of issue: **Althofen, 01.07.2013**

Manufacturer:   
 Ing. Gerd L. Tilly  
 Managing Partner  
 TILLY Holzindustrie GmbH

 <b>TILLY</b> NATURHOLZPLATTEN		<b>Declaration of Performance</b> according to Annex III of Regulation (EU) No. 305/2011		Document-No: <b>DoP07a</b>	
		<b>Single layer solid wood panel softwood</b> as non-structural component for interior use in dry conditions <b>SWP/1 NS, L1, 12 – 52 mm</b>		Version <b>B</b>	Page 19/24

- Unique identification code of the product type:  
**Single layer solid wood panels softwood SWP/1 NS (non-structural) L1, 12 - 52 mm**
- Serial number: 7-8 digit code on the longitudinal edges of the panel or pallet label (packaging);  
**e.g. 41 W 251 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: 3layer solid wood panel as non structural component for interior use in dry conditions, acc. to EN 13353:2011**
- Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**  
A-9330 Althofen, Krappfelder Strasse 27; [office.platten@tilly.at](mailto:office.platten@tilly.at); [www.tilly.at](http://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 L1 12-52 mm		Standard thickness	12	14	18	21	24	27	30	32	35	40	42	45	52	EN 13986:2004
1	Bending strength (panel shear)	fm,0	NPD													
		fm,90	NPD													
2	Bonding strength	fv	SWP/1 acc. to EN 13354:2008 fv ≥ 2,5 N/mm <sup>2</sup>													
3	Internal bond		-													
4	Release of formaldehyde	Class	E1													
5	Reaction to fire	Class	D <sub>s2,d0</sub> or D <sub>FL,s1</sub>													
6	Water vapour permeability μ (Species: wet/dry)	μ [1]	SPRUCE 67/193			PINE 75/205			LARCH 78/208							
7	Airborne sound insulation R	R [dB]	R = 13 x lg(mA) + 14													
8	Sound absorption α	α [1]	0,1 (250-500 Hz)													
			0,1 (1000-2000 Hz)													
9	Thermal conductivity λ	λ [W/mK]	SPRUCE 0,12			PINE 0,14			LARCH 0,15							
10	Biological Durability		Use class 1													
11	Content of pentachlorophenol	PCP	< 5 ppm													

\*) Intermediate thicknesses possible in the nominal thickness range, performances can be linear interpolated  
 Note: The fire reaction class D-s2, d0 is valid for all applications for panels fixed directly onto a material class A1 or A2-s,d0 with minimum density of 10 kg/m<sup>3</sup> or at least class D-s2, s0 with a minimum density of 400 kg/m<sup>3</sup> without clearance. Minimum density > 400 kg/m<sup>3</sup>, minimum thickness > 12 mm

10. Herewith, TILLY Holzindustrie GesmbH declares that the performances of product identified in points 1 and 2 conform to the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.



11. The products manufactured by TILLY are not subject to REACH registration.

Place and date of issue:

Althofen, 01.07.2013

Manufacturer:

  
 Ing. Gerd L. Tilly  
 Managing Partner  
 TILLY Holzindustrie GmbH

 <b>TILLY</b> NATURHOLZPLATTEN		<b>Declaration of Performance</b> according to Annex III of Regulation (EU) No. 305/2011		Document-No: <b>DoP07b</b>	
		<b>Single layer solid wood panel softwood</b> as non-structural component for interior use in wet conditions <b>SWP/2 NS, L1, 12 – 52 mm</b>			Version <b>B</b>

- Unique identification code of the product type:  
**Single layer solid wood panels softwood SWP/2 NS (non-structural) L1, 12 - 52 mm**
- Serial number: 7-8 digit code on the longitudinal edges of the panel or pallet label (packaging);  
**e.g. 41 W 251 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:** 3layer solid wood panel as non structural component for interior use in wet conditions, acc. to EN 13353:2011
- Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**  
A-9330 Althofen, Krappfelder Strasse 27; [office.platten@tilly.at](mailto:office.platten@tilly.at); [www.tilly.at](http://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 12-52 mm		Standard thickness	12	14	18	21	24	27	30	32	35	40	42	45	52	EN 13986:2004
1	Bending strength (panel shear)	fm,0	NPD													
		fm,90	NPD													
2	Bonding strength	fv	SWP/2 acc. to EN 13354:2008 fv ≥ 2,5 N/mm <sup>2</sup>													
3	Internal bond		-													
4	Durability (moisture expansion)		-													
5	Durability (moisture resistance)		SWP/2; fv ≥ 2,5 N/mm <sup>2</sup>													
6	Release of formaldehyde	Class	E1													
7	Reaction to fire	Class	D <sub>s2,d0</sub> Or D <sub>FL,s1</sub>													
8	Water vapour permeability μ (Species: wet/dry)	μ [1]	SPRUCE 67/193			PINE 75/205			LARCH 78/208							
9	Airborne sound insulation R	R [dB]	R = 13 x lg(mA)+14													
10	Sound absorption α	α [1]	0,1 (250-500 Hz)													
			0,1 (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  
 Note: The fire reaction class D-s2, d0 is valid for all applications for panels fixed directly onto a material class A1 or A2-s,d0 with minimum density of 10 kg/m<sup>3</sup> or at least class D-s2, s0 with a minimum density of 400 kg/m<sup>3</sup> without clearance. Minimum density > 400 kg/m<sup>3</sup>, minimum thickness > 12 mm

10. Herewith, TILLY Holzindustrie GesmbH declares that the performances of product identified in points 1 and 2 conform to the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

11. The products manufactured by TILLY are not subject to REACH registration.

Place and date of issue: Althofen, 01.07.2013

Manufacturer:   
 Ing. Gerd L. Tilly  
 Managing Partner  
 TILLY Holzindustrie GmbH

 <b>TILLY</b> NATURHOLZPLATTEN		<b>Declaration of Performance</b> according to Annex III of Regulation (EU) No. 305/2011		Document-No: <b>DoP08a</b>	
		<b>Door blank softwood</b> as non-structural component for interior use in dry conditions <b>SWP/1 NS, L5, 42 mm door blank</b>			Version <b>B</b>

- Unique identification code of the product type:  
**Door blank softwood SWP/1 NS (non-structural) L5, 42 mm TR; with circumferential edge band**
- Serial number: 7-8 digit code on the longitudinal edges of the panel or pallet label (packaging);  
**e.g. 41 W 251 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:** 3layer solid wood panel as non structural component for interior use in dry conditions, acc. to EN 13353:2011
- Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**  
A-9330 Althofen, Krappfelder Strasse 27; [office.platten@tilly.at](mailto:office.platten@tilly.at); [www.tilly.at](http://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
<b>SWP/1 NS L5 42 mm TR</b>		Dicke	<b>42</b>
<b>1</b>	Bending strength (panel shear)	fm,0	NPD
		fm,90	NPD
<b>2</b>	Bonding strength	fv	SWP/1 acc. to EN 13354:2008 $0,8 \leq f_v \leq 1,2 \text{ N/mm}^2$
<b>3</b>	Internal bond		-
<b>4</b>	Release of formaldehyde	Class	E1
<b>5</b>	Reaction to fire	Class	D <sub>s2,d0</sub>
<b>6</b>	Water vapour permeability $\mu$ (wet/dry)	$\mu$ [1]	67/193
<b>7</b>	Airborne sound insulation R	R [dB]	30,8
<b>8</b>	Sound absorption $\alpha$	$\alpha$ [1]	0,1 (250-500 Hz)
			0,1 (1000-2000 Hz)
<b>9</b>	Thermal conductivity $\lambda$	$\lambda$ [W/mK]	0,13
<b>10</b>	Biological Durability		Use class 1
<b>11</b>	Content of pentachlorophenol	PCP	< 5 ppm

EN 13986:2004

Note: The fire reaction class D-s2, d0 is valid for all applications for panels fixed directly onto a material class A1 or A2-s,d0 with minimum density of 10 kg/m<sup>3</sup> or at least class D-s2, s0 with a minimum density of 400 kg/m<sup>3</sup> without clearance. Minimum density > 400 kg/m<sup>3</sup>, minimum thickness > 12 mm

10. Herewith, TILLY Holzindustrie GesmbH declares that the performances of product identified in points 1 and 2 conform to the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

11. The products manufactured by TILLY are not subject to REACH registration.



Place and date of issue:

Althofen, 01.07.2013

Manufacturer:

  
 Ing. Gerd L. Tilly  
 Managing Partner  
 TILLY Holzindustrie GmbH



 <b>TILLY</b> NATURHOLZPLATTEN		<b>Declaration of Performance</b> according to Annex III of Regulation (EU) No. 305/2011		Document-No: <b>DoP08b</b>	
		<b>Door blank softwood</b> as non-structural component for interior use in wet conditions <b>SWP/2 NS, L5, 42 mm door blank</b>			Version <b>B</b>

- Unique identification code of the product type:  
**Door blank softwood SWP/2 NS (non-structural) L5, 42 mm TR; with circumferential edge band**
- Serial number: 7-8 digit code on the longitudinal edges of the panel or pallet label (packaging);  
**e.g. 41 W 251 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: 3layer solid wood panel as non structural component for interior use in wet conditions, acc. to EN 13353:2011**
- Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**  
A-9330 Althofen, Krappfelder Strasse 27; [office.platten@tilly.at](mailto:office.platten@tilly.at); [www.tilly.at](http://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
<b>SWP/2 NS L5 42 mm TR</b>		thickness	<b>42</b>
<b>1</b>	Bending strength (panel shear)	fm,0	NPD
		fm,90	NPD
<b>2</b>	Bonding strength	fv	SWP/2 acc. to EN 13354:2008 $0,8 \leq fv \leq 1,2 \text{ N/mm}^2$
<b>3</b>	Internal bond		-
<b>4</b>	Durability (moisture expansion)		-
<b>5</b>	Durability (moisture resistance)		SWP/2; $0,8 \leq fv \leq 1,2 \text{ N/mm}^2$
<b>6</b>	Release of formaldehyde	Class	E1
<b>7</b>	Reaction to fire	Class	D <sub>s2,d0</sub>
<b>8</b>	Water vapour permeability $\mu$ (wet/dry)	$\mu$ [1]	67/193
<b>9</b>	Airborne sound insulation R	R [dB]	30,8
<b>10</b>	Sound absorption $\alpha$		0,1 (250-500 Hz)
			0,1 (1000-2000 Hz)
<b>11</b>	Thermal conductivity $\lambda$	$\lambda$ [W/mK]	0,13
<b>12</b>	Biological Durability		Use class 2
<b>13</b>	Content of pentachlorophenol	PCP	< 5 ppm

EN 13986:2004

Note: The fire reaction class D-s2, d0 is valid for all applications for panels fixed directly onto a material class A1 or A2-s,d0 with minimum density of 10 kg/m<sup>3</sup> or at least class D-s2, s0 with a minimum density of 400 kg/m<sup>3</sup> without clearance. Minimum density > 400 kg/m<sup>3</sup>, minimum thickness > 12 mm

12. Herewith, TILLY Holzindustrie GesmbH declares that the performances of product identified in points 1 and 2 conform to the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

13. The products manufactured by TILLY are not subject to REACH registration.



Place and date of issue:

Manufacturer:

Althofen, 01.07.2013

  
 Ing. Gerd L. Tilly  
 Managing Partner  
 TILLY Holzindustrie GmbH



 <b>TILLY</b> NATURHOLZPLATTEN		<b>Declaration of Performance</b> according to Annex III of Regulation (EU) No. 305/2011		Document-No: <b>DoP09a</b>	
		<b>Door frame softwood</b> as non-structural component for interior use in dry conditions <b>SWP/1 NS, L3, door frame</b>			Version <b>B</b>

- Unique identification code of the product type:  
**Door frame softwood SWP/1 NS (non-structural) L3, 42 mm TF with uniform core**
- Serial number: 7-8 digit code on the longitudinal edges of the panel or pallet label (packaging);  
**e.g. 41 W 251 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:** 3layer solid wood panel as non structural component for interior use in dry conditions, acc. to EN 13353:2011
- Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**  
A-9330 Althofen, Krappfelder Strasse 27; [office.platten@tilly.at](mailto:office.platten@tilly.at); [www.tilly.at](http://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	
<b>SWP/1 NS L3 42 mm TF</b>		thickness	<b>EN 13986:2004</b>	
<b>1</b>	Bending strength (panel shear)	fm,0		NPD
		fm,90		NPD
<b>2</b>	Bonding strength	fv		SWP/1 acc. to EN 13354:2008 $0,8 \leq fv \leq 1,2 \text{ N/mm}^2$
<b>3</b>	Internal bond			-
<b>4</b>	Release of formaldehyde	Class		E1
<b>5</b>	Reaction to fire	Class		D <sub>s2,d0</sub>
<b>6</b>	Water vapour permeability $\mu$ (wet/dry)	$\mu$ [1]		67/193
<b>7</b>	Airborne sound insulation R	R [dB]		30,8
<b>8</b>	Sound absorption $\alpha$	$\alpha$ [1]		0,1 (250-500 Hz)
				0,1 (1000-2000 Hz)
<b>9</b>	Thermal conductivity $\lambda$	$\lambda$ [W/mK]	0,13	
<b>10</b>	Biological Durability		Use class 1	
<b>11</b>	Content of pentachlorophenol	PCP	< 5 ppm	

Note: The fire reaction class D-s2, d0 is valid for all applications for panels fixed directly onto a material class A1 or A2-s,d0 with minimum density of 10 kg/m<sup>3</sup> or at least class D-s2, s0 with a minimum density of 400 kg/m<sup>3</sup> without clearance. Minimum density > 400 kg/m<sup>3</sup>, minimum thickness > 12 mm

10. Herewith, TILLY Holzindustrie GesmbH declares that the performances of product identified in points 1 and 2 conform to the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.



11. The products manufactured by TILLY are not subject to REACH registration.

Place and date of issue:

Althofen, 01.07.2013

Manufacturer:

  
 Ing. Gerd L. Tilly  
 Managing Partner  
 TILLY Holzindustrie GmbH

		<b>Declaration of Performance</b> according to Annex III of Regulation (EU) No. 305/2011		Dokument-Nr: <b>DoP09b</b>	
		<b>Door frame softwood</b> as non-structural component for interior use in wet conditions <b>SWP/2 NS, L3, door frame</b>			Version <b>B</b>

- Unique identification code of the product type:  
**Door frame softwood SWP/2 NS (non-structural) L3, 42 mm TR with uniform core**
- Serial number: 7-8 digit code on the longitudinal edges of the panel or pallet label (packaging);  
**e.g. 41 W 251 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:** 3layer solid wood panel as non structural component for interior use in wet conditions, acc. to EN 13353:2011
- Name and address of the manufacturer: **TILLY Holzindustrie GesmbH;**  
A-9330 Althofen, Krappfelder Strasse 27; [office.platten@tilly.at](mailto:office.platten@tilly.at); [www.tilly.at](http://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
<b>SWP/2 NS L3 42 mm TF</b>		Dicke	<b>42</b>	<b>EN 13986:2004</b>
<b>1</b>	Bending strength (panel shear)	fm,0	NPD	
		fm,90	NPD	
<b>2</b>	Bonding strength	fv	SWP/2 acc. to EN 13354:2008 0,8 ≤ fv ≤ 1,2 N/mm <sup>2</sup> (bei Holzbruchanteil a 20%)	
<b>3</b>	Internal bond		-	
<b>4</b>	Durability (moisture expansion)		-	
<b>5</b>	Durability (moisture resistance)		SWP/2; 0,8 ≤ fv ≤ 1,2 N/mm <sup>2</sup>	
<b>6</b>	Release of formaldehyde	Class	E1	
<b>7</b>	Reaction to fire	Class	D <sub>s2,d0</sub>	
<b>8</b>	Water vapour permeability μ (wet/dry)	μ [1]	67/193	
<b>9</b>	Airborne sound insulation R	R [dB]	30,8	
<b>10</b>	Sound absorption α		0,1 (250-500 Hz)	
			0,1 (1000-2000 Hz)	
<b>11</b>	Thermal conductivity λ	λ [W/mK]	0,13	
<b>12</b>	Biological Durability		Use class 2	
<b>13</b>	Content of pentachlorophenol	PCP	< 5 ppm	

Note: The fire reaction class D-s2, d0 is valid for all applications for panels fixed directly onto a material class A1 or A2-s,d0 with minimum density of 10 kg/m<sup>3</sup> or at least class D-s2, s0 with a minimum density of 400 kg/m<sup>3</sup> without clearance. Minimum density > 400 kg/m<sup>3</sup>, minimum thickness > 12 mm

10. Herewith, TILLY Holzindustrie GesmbH declares that the performances of product identified in points 1 and 2 conform to the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

11. The products manufactured by TILLY are not subject to REACH registration.

Place and date of issue:

Althofen, 01.07.2013

Manufacturer:

  
 Ing. Gerd L. Tilly  
 Managing Partner  
 TILLY Holzindustrie GmbH