



Declaration of Performance

No. DOP_MMKR_401



Unique identification code of the product type:	SWP/3 SD K1 multiplan
indicator for identification of the product:	SWP/3 SD (thickness), 3-ply
name and address of manufacturer	Mayr-Melnhof Holz Reuthe GmbH Vorderreuthe 57, 6870 Reuthe, Austria
Intended use of the construction product	Solid wood panel for load bearing structures
System for assessment and examination	System 2+
Harmonised standard:	EN 13986:2015-06

In the report no. 51141-904.281.000 dated 3rd of March 2004 the notified body MPA Stuttgart – no. 0672 derived the bending strength and the modulus of elasticity and gives characteristic values of mechanical properties and a rating about durability. The evaluation of the producer's laboratory according EN 326-2 has been documented in the report no. 51220-9000.5527.000/1 with the initial certification.

A continue monitoring, evaluation and endorsement of the factory production control within the scope of the certifying and supervision contract is carried out and documented with the certification of conformity

no. 0672 – CPR – 0599

The performance stated as ``declared values`` acc. EN 13986:2015-06`` are shown on the table enclosed. Rev. 05 2016-03-29

Signed on behalf of the manufacturer:

Horst Baurenhas
General Manager

Reuthe, 29.03.2016

enclosure

WHERE
IDEAS
CAN
GROW.

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product	determination of performance requirements	
service class	3	nach EN 1995-1-1
bending strength	see table 1	
bending stiffness (MOE)	see table 1	
durability bonding strength	class	SWP/3 nach EN13354
racking resistance	120/240 Nm	
fire resistance	class	D
	smoke	s2
	drop	d0
water vapour permeability	μ wet	65
	μ dry	188
release of content of formaldehyd	class 1	E1

sound insulation	thickness	20mm	26mm	30mm	35mm	40mm	45mm	50mm	55mm	60mm	65mm	70mm	75mm
	R (db)	26,4	27,9	28,7	29,6	30,3	31,0	31,6	32,1	32,6	33,1	33,5	33,9

(frequency range 1 kHz bis 3 kHz)

sound absorption	0,1	(frequency range 250 Hz bis 500 Hz)
	0,3	(frequency range 1000 Hz bis 2000 Hz)

thermal conductivity	λ	0,12	W/(m · k)
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strength and stiffness siehe Tabelle 2

impact resistance for structural use		
correction by creep factor	k_{mod}	acc. EN 1995-1-1
correction by load factor	k_{def}	acc. EN 1995-1-1

Tabelle 1)

bending strength bending stiffness (MOE)		thickness of 3 ply wood decking 6,7mm					thickness of 3 ply wood decking 13mm								
		20mm	26mm	30mm	35mm	40mm	2x 6,7	decking 13mm							
		40mm	40mm	45mm	50mm	55mm	60mm	65mm	70mm	75mm					
bending strength rectangular to the panel	$\beta_{0,m}$	44,0	38,0	34,0	29,0	24,0	46,0	30,0	29,0	28,0	27,0	26,0	25,0	24,0	23,0
	$\beta_{90,m}$	6,0	10,2	13,0	16,5	20,0	5,0	6,5	7,6	8,6	9,7	10,8	11,9	12,9	14,0
bending stiffness rectangular to the panel	$E_{0,05,m}$	9000	8400	8000	7500	7000	8000	8000	7750	7550	7300	7100	6850	6650	6400
	$E_{90,05,m}$	700	1350	1800	2350	2900	700	700	1000	1250	1550	1850	2150	2400	2700

5% - Quantile of bending strength and bending stiffness (N/mm²) acc. EN 326-1

Tabelle 2)

bending strength bending stiffness (MOE) acc EN1058		thickness of 3 ply wood decking 6,7mm					thickness of 3 ply wood decking 13mm								
		20mm	26mm	30mm	35mm	40mm	2x 6,7	decking 13mm							
		40mm	40mm	45mm	50mm	55mm	60mm	65mm	70mm	75mm					
bending strength rectangular to the panel	$f_{0,m,k}$	42,0	36,0	32,0	27,0	22,0	46,0	28,0	26,4	24,9	23,3	21,7	20,1	18,6	17,0
	$f_{90,m,k}$	6,0	10,0	12,5	15,5	19,0	5,0	6,5	7,4	8,4	9,3	10,2	11,1	12,1	13,0
bending in plane	$f_{0,m,k}$	18,0	17,5	17,0	16,5	16,0	16,0	16,0	15,0	14,0	13,0	12,0	11,0	10,0	9,0
	$f_{90,m,k}$	10,5	11,0	11,5	11,5	12,0	8,0	8,0	8,7	9,4	10,1	10,9	11,6	12,3	13,0
tension in plane	$f_{0,t,k}$	19,0	15,6	13,5	10,5	7,5	13,5	13,5	12,6	11,8	10,9	10,1	9,2	8,4	7,5
	$f_{30,t,k}$	7,5	6,5	5,5	5,0	4,0	5,5	5,5	5,2	4,9	4,6	4,4	4,1	3,8	3,5
	$f_{45,t,k}$	5,5	4,5	3,5	3,0	2,0	4,0	4,0	3,8	3,6	3,4	3,1	2,9	2,7	2,5
	$f_{60,t,k}$	6,5	5,5	4,5	4,0	3,0	4,0	4,0	4,2	4,4	4,6	4,9	5,1	5,3	5,5
	$f_{90,t,k}$	7,5	9,0	10,0	11,0	12,0	9,0	9,0	9,1	9,3	9,4	9,6	9,7	9,9	10,0
compression in plane	$f_{0,c,k}$	22,0	19,0	17,0	14,0	11,5	21,0	21,0	19,7	18,4	17,1	15,9	14,6	13,3	12,0
	$f_{90,c,k}$	13,0	15,0	16,5	18,0	20,0	11,0	11,0	12,6	14,1	15,7	17,3	18,9	20,4	22,0
panel shear	$f_{v,k}$	4,5	4,2	4,0	3,8	3,5	4,5	4,5	4,2	3,9	3,6	3,4	3,1	2,8	2,5
planar shear	$f_{v,k}$	1,4	1,4	1,3	1,3	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2	1,2
bending strength rectangular to the panel 1.)	$E_{0, mean}$	10400	9700	9200	8600	8000	9000	9000	8700	8400	8100	7900	7600	7300	7000
	$E_{90, mean}$	960	1800	2300	2900	3600	800	800	1200	1500	1900	2200	2600	2900	3300
bending in plane 1.)	$E_{0, mean}$	6800	6700	6600	6500	6400	6000	6000	5600	5300	4900	4600	4200	3900	3500
	$E_{90, mean}$	3200	3300	3400	3500	3600	3500	3500	3900	4400	4800	5200	5600	6100	6500
shear modulus of elasticity in plane 1.)	G_{mean}	600	600	600	600	600	700	700	700	700	700	700	700	700	700

1.) characteristic value of stiffness $E_{0,05}$, $E_{90,05}$ und G_{05} should be deviated

$$E_{0,05} = 5/6 \cdot E_{0,mean}, E_{90,05} = 5/6 \cdot E_{90,mean} \text{ und } G_{05} = 5/6 \cdot G_{mean}$$