16/11/2016 İstanbul

Arslan Foreign Trade Industry Corporation / İzmir

SUBJECT: Your application regarding test report on linear thermal expansion coefficient of ARLINE[®] hollow wood plastic composite decks to Istanbul University, Forestry Faculty with the petition with the number of 106894 on 19.09.2016.

TEST METHODS: The linear thermal expansion coefficient of ARLINE[®] hollow wood plastic composite decks produced by Arslan Foreign Trade Industry Corporation in İzmir, Turkey, based on the EN 15534-1.

EN 15534-1 (2014): Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) - Part 1: Test methods

TEST RESULTS

The test results performed on the ARLINE[®] hollow wood plastic composites are presented in Table 1.

Table 1: The linear thermal expansion coefficient results of $\mathsf{ARLINE}^{\$}$ hollow wood plastic composite decks.

Test Type	Standard	Unit	Produc	t type	Ct and and
	Otdridard	Ont	14024	14025	Standard value
Linear thermal expansion coefficient	DIN E2750	10-1	2 6		
(between 60 °C and -20 °C)	DIN 53752	K ⁻¹	34.10 ⁻⁶	42.10 ⁻⁶	$\leq 50.10^{-6}$
* the values speficied in EN 15524	(204.4)				

the values speficied in EN 15534-4 (2014).

This test report was prepared by Prof.Dr. Nadir AYRILMIS.

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16/11/2016 İstanbul

Arslan Foreign Trade Industry Corporation / İzmir

SUBJECT: Your application regarding test report on bending strength of ARLINE[®] hollow wood plastic composite decks to Istanbul University, Forestry Faculty with the petition with the number of 106894 on 19.09.2016.

TEST METHODS: The bending strength of ARLINE[®] hollow wood plastic composite decks produced by Arslan Foreign Trade Industry Corporation in İzmir, Turkey, based on the EN ISO 15534-1.

EN 15534-1 (2014): Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) - Part 1: Test methods

TEST RESULTS

The test results performed on the ARLINE® hollow wood plastic composites are presented in Table 1.

Table 1: Bending strength of ARLINE® hollow wood plastic composite decks.

					Product	type	
	Test Type		Standard	Unit	14024	14025	Standard value
gth	nside)	300 mm	EN 310	N/mm²	23,2	27,6	-
Bending strength (3 point)	Span (inside to inside)	350 mm	EN 310	N/mm²	21,1	26,9	-
Benc)	Span (ii	400 mm	EN 310	N/mm²	21,3	26,3	-

^{*} the values speficied in EN 15534-4 (2014).

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Arslan Foreign Trade Industry Corporation / İzmir

SUBJECT: Your application regarding test report on density measurement of ARLINE[®] hollow wood plastic composite decks to Istanbul University, Forestry Faculty with the petition with the number of 106894 on 19.09.2016.

TEST METHODS: The density measurement of ARLINE[®] hollow wood composite decks produced by Arslan Foreign Trade Industry Corporation in İzmir, Turkey, based on the EN 15534-1.

EN 15534-1 (2014): Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) - Part 1: Test methods

TEST RESULTS

The test results performed on the ARLINE® hollow wood plastic composites are presented in Table 1.

Table 1: The density results of ARLINE® hollow wood plastic composite decks.

			Produc	t type		
Test Type	Standard	Unit	14024	14025	Standard value	
Density	EN ISO 1183-1	g/cm ³	1,129	1,125	-	

^{*} the values speficied in EN 15534-4 (2014).

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Arslan Foreign Trade Industry Corporation / İzmir

SUBJECT: Your application regarding test report on falling mass impact resistance of ARLINE® hollow wood plastic composite decks to Istanbul University, Forestry Faculty with the petition with the number of 106894 on 19.09.2016.

TEST METHODS: The falling mass of ARLINE® hollow wood plastic composite decks produced by Arslan Foreign Trade Industry Corporation in Izmir, Turkey, based on the EN 15534-1.

EN 15534-1 (2014): Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) - Part 1: Test methods

TEST RESULTS

The test results performed on the ARLINE® hollow wood plastic composites are presented in Table 1.

Table 1: The falling mass results of ARLINE® hollow wood plastic composite decks.

	Test Type	Standard	Unit	Pro	duct type	Standard value	
		o tomogra	Offic	14024	14025		
Falling mass Impact resistance	H: (700 ± 5) mm Ms: (1 000 ± 5) g	EN 477	mm	no failure with a crack; the depth of residual indentation 0,35 mm	no failure with a crack; the depth of residual indentation 0,29 mm	None of 10 test specimens shall show a failure with a crack length ≥ 10 mm or a depth of residual indentation ≥ 0,5 mm.	

^{*} the values speficied in EN 15534-4 (2014).

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Arslan Foreign Trade Industry Corporation / İzmir

SUBJECT: Your application regarding test report on slip resistance of ARLINE[®] hollow composite decks to Istanbul University, Forestry Faculty with the petition with the number of 106894 on 19.09.2016.

TEST METHODS: The dry and wet slip resistance of ARLINE[®] hollow wood plastic composite decks produced by Arslan Foreign Trade Industry Corporation in İzmir, Turkey, based on the EN ISO 15534-1.

EN 15534-1 (2014): Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) - Part 1: Test methods

TEST RESULTS

The test results performed on the ARLINE® hollow wood plastic composites are presented in Table 1.

Table 1: Slip resistance of ARLINE® hollow wood plastic composite decks.

					Produ	ct type	Standard	
Test	Test Type			Unit	14024	14025	values	
	Dry	Тор	CEN/TS 15676	Value	55	69	≥ 36	
Slip resistance (pendulum	Біу	Bottom	CEN/TS 15676	Value	54	46	≥ 36	
method)	Wet	Тор	CEN/TS 15676	Value	45	55	≥ 36	
	vvet	Bottom	CEN/TS 15676	Value	22	21	≥ 36	

^{*} the values speficied in EN 15534-4 (2014).

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Arslan Foreign Trade Industry Corporation / İzmir

SUBJECT: Your application regarding test report on flame spread of ARLINE® hollow wood plastic composite decks to Istanbul University, Forestry Faculty with the petition with the number of 106894 on 19.09.2016.

TEST METHODS: The flame spread of ARLINE wood plastic composite decks produced by Arslan Foreign Trade Industry Corporation in İzmir, Turkey, based on the EN ISO 11925-2 and EN 15534-1.

EN 15534-1 (2014): Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) - Part 1: Test methods for characterisation of compounds and products.

TEST RESULTS

The test results performed on the ARLINE® hollow wood plastic composites are presented in Table 1.

Table 1: Flame spread of ARLINE® hollow wood plastic composite decks.

	Took Tymo	Standard	Unit	Product	type	Standard value*	
Test Type		Standard	UTIK	14024	14025	Otanuaru varue	
Flame spread	The flame application duration is 15 sec. after the flame application the flame spread reaches the reference mark of 150 mm within a duration of 20 sec	11925-2 t = 15 s	mm	110 mm	105 mm	Fs (flame spread) ≤ 150 mm	

^{*} the value speficied in EN ISO 11925-2 (2010).

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Arslan Foreign Trade Industry Corporation / İzmir

SUBJECT: Your application regarding test report on dimensional stability of ARLINE[®] hollow composite decks in wet conditions to Istanbul University, Forestry Faculty with the petition with the number of 106894 on 19.09.2016.

TEST METHODS: The dimensional stability in wet conditions of ARLINE[®] hollow wood plastic composite decks produced by Arslan Foreign Trade Industry Corporation in İzmir, Turkey, based on the EN ISO 15534-1.

EN 15534-1 (2014): Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) - Part 1: Test methods

TEST RESULTS

The test results performed on the ARLINE® hollowwood plastic composites are presented in Table 1.

Table 1: Dimensional stability of ARLINE® hollow wood plastic composite decks.

Test Tv	/pe	Standard	Unit	Produ	ict type	Standard value*
			14024	14025		
	Water absorption	EN 317	%	4,91	4,4	≤ 7
Dimensional stability and water absorption	Thickness swelling	EN 317	%	1,32	1,56	≤ 4
after 28 days immersion in normal water (23 °C)	Expansion in Width	EN 317	%	0,25	0,34	≤ 0.8
	Expansion in Length	EN 317	%	0,1	0,17	≤ 0.4
Water absorption after boiling in water for 5 h	Water absorption after		%	2,28	2,13	≤ 7

^{*} the values speficied in EN 15534-4 (2014).

This test report was prepared by Prof.Dr. Nadir AYRILMIS.

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Arslan Foreign Trade Industry Corporation / İzmir

SUBJECT: Your application regarding test report on maximum load at break and deflection of ARLINE® hollow composite decks to Istanbul University, Forestry Faculty with the petition with the number of 106894 on 19.09.2016.

TEST METHODS: The maximum load at break and deflection of ARLINE[®] hollow wood plastic composite decks produced by Arslan Foreign Trade Industry Corporation in Izmir, Turkey, based on the EN ISO 15534-1.

EN 15534-1 (2014): Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) - Part 1: Test methods

TEST RESULTS

The test results performed on the ARLINE[®] hollow wood plastic composites are presented in Table 1 and Table 2.

Table 1: Maximum load at break of ARLINE® hollow wood plastic composite decks.

	Test Type			Unit	Produc	t type	
			Standard		14024	14025	Standard value
break	nside)	300 mm	EN 310	N	4562	4991	≥ 3300
maximum load at break	Span (inside to inside)	350 mm	EN 310	N	3673	4196	≥ 3300
maxin	Span	400 mm	EN 310	N	3148	3595	≥ 3300

^{*} the values speficied in EN 15534-4 (2014).



Table 2. Deflection values of ARLINE® hollow wood plastic composite decks under 500 N load.

	Test Type			Unit	Product	type	
			Standard		14024	14025	Standard value
0 N load	ıside)	300 mm	EN 310	mm	0,99	0,89	≤ 2,0 mm
Deflection under 500 N load	Span (inside to inside)	350 mm	EN 310	mm	1,33	1,17	≤ 2,0 mm
		400 mm	EN 310	mm	1,67	1,64	≤ 2,0 mm

^{*} the values speficied in EN 15534-4 (2014).

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Arslan Foreign Trade Industry Corporation / İzmir

SUBJECT: Your application regarding test report on linear thermal expansion coefficient of ARLINE[®] hollow wood plastic composite decks to Istanbul University, Forestry Faculty with the petition with the number of 106894 on 19.09.2016.

TEST METHODS: The linear thermal expansion coefficient of ARLINE[®] hollow wood plastic composite decks produced by Arslan Foreign Trade Industry Corporation in İzmir, Turkey, based on the EN 15534-1.

EN 15534-1 (2014): Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) - Part 1: Test methods

TEST RESULTS

The test results performed on the ARLINE[®] hollow wood plastic composites are presented in Table 1.

Table 1: The linear thermal expansion coefficient results of $\mathsf{ARLINE}^{\$}$ hollow wood plastic composite decks.

Test Type	Standard	Unit	Produc	t type	Ct and and
	Otdridard	Ont	14024	14025	Standard value
Linear thermal expansion coefficient	DIN E2750	10-1	2 6		
(between 60 °C and -20 °C)	DIN 53752	K ⁻¹	34.10 ⁻⁶	42.10 ⁻⁶	$\leq 50.10^{-6}$
* the values speficied in EN 15524	(204.4)				

the values speficied in EN 15534-4 (2014).

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Arslan Foreign Trade Industry Corporation / İzmir

SUBJECT: Your application regarding test report on bending strength of ARLINE[®] hollow wood plastic composite decks to Istanbul University, Forestry Faculty with the petition with the number of 106894 on 19.09.2016.

TEST METHODS: The bending strength of ARLINE[®] hollow wood plastic composite decks produced by Arslan Foreign Trade Industry Corporation in İzmir, Turkey, based on the EN ISO 15534-1.

EN 15534-1 (2014): Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) - Part 1: Test methods

TEST RESULTS

The test results performed on the ARLINE® hollow wood plastic composites are presented in Table 1.

Table 1: Bending strength of ARLINE® hollow wood plastic composite decks.

					Product	type	
	Test Type		Standard	Unit	14024	14025	Standard value
gth	nside)	300 mm	EN 310	N/mm²	23,2	27,6	-
Bending strength (3 point)	Span (inside to inside)	350 mm	EN 310	N/mm²	21,1	26,9	-
Benc)	Span (ii	400 mm	EN 310	N/mm²	21,3	26,3	-

^{*} the values speficied in EN 15534-4 (2014).

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Arslan Foreign Trade Industry Corporation / İzmir

SUBJECT: Your application regarding test report on density measurement of ARLINE[®] hollow wood plastic composite decks to Istanbul University, Forestry Faculty with the petition with the number of 106894 on 19.09.2016.

TEST METHODS: The density measurement of ARLINE[®] hollow wood composite decks produced by Arslan Foreign Trade Industry Corporation in İzmir, Turkey, based on the EN 15534-1.

EN 15534-1 (2014): Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) - Part 1: Test methods

TEST RESULTS

The test results performed on the ARLINE® hollow wood plastic composites are presented in Table 1.

Table 1: The density results of ARLINE® hollow wood plastic composite decks.

			Produc	t type		
Test Type	Standard	Unit	14024	14025	Standard value	
Density	EN ISO 1183-1	g/cm ³	1,129	1,125	-	

^{*} the values speficied in EN 15534-4 (2014).

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Arslan Foreign Trade Industry Corporation / İzmir

SUBJECT: Your application regarding test report on falling mass impact resistance of ARLINE® hollow wood plastic composite decks to Istanbul University, Forestry Faculty with the petition with the number of 106894 on 19.09.2016.

TEST METHODS: The falling mass of ARLINE® hollow wood plastic composite decks produced by Arslan Foreign Trade Industry Corporation in Izmir, Turkey, based on the EN 15534-1.

EN 15534-1 (2014): Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) - Part 1: Test methods

TEST RESULTS

The test results performed on the ARLINE® hollow wood plastic composites are presented in Table 1.

Table 1: The falling mass results of ARLINE® hollow wood plastic composite decks.

	Test Type		Unit	Pro	duct type		
		Standard	Office	14024	14025	Standard value	
Falling mass Impact resistance	H: (700 ± 5) mm Ms: (1 000 ± 5) g	EN 477	mm	no failure with a crack; the depth of residual indentation 0,35 mm	no failure with a crack; the depth of residual indentation 0,29 mm	None of 10 test specimens shall show a failure with a crack length ≥ 10 mm or a depth of residual indentation ≥ 0,5 mm.	

^{*} the values speficied in EN 15534-4 (2014).

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Arslan Foreign Trade Industry Corporation / İzmir

SUBJECT: Your application regarding test report on slip resistance of ARLINE[®] hollow composite decks to Istanbul University, Forestry Faculty with the petition with the number of 106894 on 19.09.2016.

TEST METHODS: The dry and wet slip resistance of ARLINE[®] hollow wood plastic composite decks produced by Arslan Foreign Trade Industry Corporation in İzmir, Turkey, based on the EN ISO 15534-1.

EN 15534-1 (2014): Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) - Part 1: Test methods

TEST RESULTS

The test results performed on the ARLINE® hollow wood plastic composites are presented in Table 1.

Table 1: Slip resistance of ARLINE® hollow wood plastic composite decks.

			Standard		Product type		Standard
Test	Туре			Unit	14024	14025	values
	Dry	Тор	CEN/TS 15676	Value	55	69	≥ 36
Slip resistance (pendulum	Ыу	Bottom	CEN/TS 15676	Value	54	46	≥ 36
method)	Wet	Тор	CEN/TS 15676	Value	45	55	≥ 36
	vvet	Bottom	CEN/TS 15676	Value	22	21	≥ 36

^{*} the values speficied in EN 15534-4 (2014).

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Arslan Foreign Trade Industry Corporation / İzmir

SUBJECT: Your application regarding test report on flame spread of ARLINE® hollow wood plastic composite decks to Istanbul University, Forestry Faculty with the petition with the number of 106894 on 19.09.2016.

TEST METHODS: The flame spread of ARLINE wood plastic composite decks produced by Arslan Foreign Trade Industry Corporation in İzmir, Turkey, based on the EN ISO 11925-2 and EN 15534-1.

EN 15534-1 (2014): Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) - Part 1: Test methods for characterisation of compounds and products.

TEST RESULTS

The test results performed on the ARLINE® hollow wood plastic composites are presented in Table 1.

Table 1: Flame spread of ARLINE® hollow wood plastic composite decks.

	Test Type		Unit	Product :	Standard value*		
rest Type		Standard	OTIN	14024	14025	Otaridard varde	
Flame spread	The flame application duration is 15 sec. after the flame application the flame spread reaches the reference mark of 150 mm within a duration of 20 sec	11925-2 t = 15 s	mm	110 mm	105 mm	Fs (flame spread) ≤ 150 mm	

^{*} the value speficied in EN ISO 11925-2 (2010).

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Arslan Foreign Trade Industry Corporation / İzmir

SUBJECT: Your application regarding test report on dimensional stability of ARLINE[®] hollow composite decks in wet conditions to Istanbul University, Forestry Faculty with the petition with the number of 106894 on 19.09.2016.

TEST METHODS: The dimensional stability in wet conditions of ARLINE[®] hollow wood plastic composite decks produced by Arslan Foreign Trade Industry Corporation in İzmir, Turkey, based on the EN ISO 15534-1.

EN 15534-1 (2014): Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) - Part 1: Test methods

TEST RESULTS

The test results performed on the ARLINE® hollowwood plastic composites are presented in Table 1.

Table 1: Dimensional stability of ARLINE® hollow wood plastic composite decks.

Test Tv	/pe	Standard	Unit	Product type		Standard value*
			14024	14025		
	Water absorption	EN 317	%	4,91	4,4	≤ 7
Dimensional stability and water absorption	Thickness swelling	EN 317	%	1,32	1,56	≤ 4
after 28 days immersion in normal water (23 °C)	Expansion in Width	EN 317	%	0,25	0,34	≤ 0.8
	Expansion in Length	EN 317	%	0,1	0,17	≤ 0.4
Water absorption after boiling in water for 5 h	Water absorption	EN 1087-1	%	2,28	2,13	≤ 7

^{*} the values speficied in EN 15534-4 (2014).

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SUBJECT: Your application regarding test report on maximum load at break and deflection of ARLINE® hollow composite decks to Istanbul University, Forestry Faculty with the petition with the number of 106894 on 19.09.2016.

TEST METHODS: The maximum load at break and deflection of ARLINE[®] hollow wood plastic composite decks produced by Arslan Foreign Trade Industry Corporation in Izmir, Turkey, based on the EN ISO 15534-1.

EN 15534-1 (2014): Composites made from cellulose-based materials and thermoplastics (usually called wood-polymer composites (WPC) or natural fibre composites (NFC)) - Part 1: Test methods

TEST RESULTS

The test results performed on the ARLINE[®] hollow wood plastic composites are presented in Table 1 and Table 2.

Table 1: Maximum load at break of ARLINE® hollow wood plastic composite decks.

					Produc	t type	
Test Type			Standard	Unit	14024	14025	Standard value
break	nside)	300 mm	EN 310	N	4562	4991	≥ 3300
maximum load at break	Span (inside to inside)	350 mm	EN 310	N	3673	4196	≥ 3300
maxin	Span	400 mm	EN 310	N	3148	3595	≥ 3300

^{*} the values speficied in EN 15534-4 (2014).



Table 2. Deflection values of ARLINE® hollow wood plastic composite decks under 500 N load.

	Test Type				Product type		
				Unit	14024	14025	Standard value
0 N load	side)	300 mm	EN 310	mm	0,99	0,89	≤ 2,0 mm
Deflection under 500 N load	Span (inside to inside)	350 mm	EN 310	mm	1,33	1,17	≤ 2,0 mm
		400 mm	EN 310	mm	1,67	1,64	≤ 2,0 mm

^{*} the values speficied in EN 15534-4 (2014).

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