



TÜRKİYE'NİN
500 BÜYÜK SANAYİ
KURULUŞU
2021



		ÇAMSAN ENTEGRE LAMINATE FLOORING QUALITY SPECIFICATIONS		
CHARACTERISTIC	STANDARD	8mm SİLVER - AC3 (EN STANDARD)	8mm KLASİK - AC4 (EN STANDARD)	UNIT
DENSITY	ÇAMSAN ENTEGRE	900 ± %3	920 ± %3	kg/m ³
THICKNESS OF THE ELEMENT (t)	TS EN 13329+A2	$\Delta t_{average} \leq 0,50$, $t_{max} - t_{min} \leq 0,50$	$\Delta t_{average} \leq 0,50$, $t_{max} - t_{min} \leq 0,50$	mm
WIDTH OF THE SURFACE LAYER (W)		$\Delta W_{average} \leq 0,10$, $\Delta l_{average} \leq 0,10$, $W_{max} - W_{min} \leq 0,20$, $L_{max} - L_{min} \leq 0,20$	$\Delta W_{average} \leq 0,10$, $\Delta l_{average} \leq 0,10$, $W_{max} - W_{min} \leq 0,20$, $L_{max} - L_{min} \leq 0,20$	mm
LENGTH OF THE SURFACE LAYER (l)		$l \leq 1500 : \Delta l \leq 0,5$ mm, $l > 1500 : \Delta l \leq 0,3$ mm/m.	$l \leq 1500 : \Delta l \leq 0,5$ mm, $l > 1500 : \Delta l \leq 0,3$ mm/m.	mm
SQUARENESS OF THE ELEMENT (q)		$q_{max} \leq 0,20$	$q_{max} \leq 0,20$	mm
STRAIGHTNESS OF THE SURFACE LAYER (s)		$S_{max} \leq 0,30$	$S_{max} \leq 0,30$	mm / m
FLATNESS OF THE ELEMENT (f)		$f_{w, concave} \leq \% 0,15$, $f_{w, convex} \leq \% 0,20$, $f_{l, concave} \leq \% 0,50$, $f_{l, convex} \leq \% 1,00$	$f_{w, concave} \leq \% 0,15$, $f_{w, convex} \leq \% 0,20$, $f_{l, concave} \leq \% 0,50$, $f_{l, convex} \leq \% 1,00$	mm
OPENING BETWEEN ELEMENTS(O)		$O_{average} \leq 0,15$, $O_{max} \leq 0,20$	$O_{average} \leq 0,15$, $O_{max} \leq 0,20$	mm
HEIGHT DIFERENCE BETWEEN ELEMENTS		$h_{average} \leq 0,10$, $h_{max} \leq 0,15$	$h_{average} \leq 0,10$, $h_{max} \leq 0,15$	mm
SURFACE SOUNDNESS		TS EN 13329 / TS EN 311	AC3 ≥ 1,00	AC4 ≥ 1,25
THICKNESS SWELLING	TS EN 13329	≤ %18	≤ %18	%
HUMIDITY	TS EN 322	%4 ≤ H ≤ %10 $H_{max} - H_{min} \leq \%3$	%4 ≤ H ≤ %10 $H_{max} - H_{min} \leq \%3$	%
FREE FORMALDEHYDE AMOUNT	TS EN 12460-3	E0: ≤ 1,75 E1: 1,75 < x ≤ 3,50	E0: ≤ 1,75 E1: 1,75 < x ≤ 3,50	mg / m ² . h
DIMENSIONAL VARIATIONS AFTER CHANGES IN RELATIVE HUMIDITY	TS EN 13329 / TS EN 318	$\delta l_{average} \leq 0,9$, $\delta W_{average} \leq 0,9$	$\delta l_{average} \leq 0,9$, $\delta W_{average} \leq 0,9$	mm
ABRASION RESISTANCE	TS EN 13329	AC3; ≥ 2000	AC4; ≥ 4000	Rev
SMALL-DIAMETER BALL IMPACT RESISTANCE	TS EN 17368	≥ 10 mm	≥ 35 mm	N, mm
LARGE-DIAMETER BALL IMPACT RESISTANCE	TS EN 13329 / TS EN 438-2	≥ 500 mm	≥ 750 mm	
RESISTANCE TO STAINING	TS EN 438-2	5 (group 1 ve group 2), 4 (group 3)	5 (group 1 ve group 2), 4 (group 3)	Class
EFFECT OF A CASTOR CHAIR	TS EN 425	25.000 cycles - no damage	25.000 cycles - no damage	View
EFFECT OF A FURNITURE LEG	TS EN 424	No damage shall be visible	No damage shall be visible	View
APPERANCE, SURFACE DEFECTS	TS EN 438-2	Minor surface defects as defined in the EN 438 series are permitted.	Minor surface defects as defined in the EN 438 series are permitted.	View
STATIC INDENTATION	TS EN ISO 24343-1	≤ 0,05	≤ 0,05	mm
LIGHT FASTNESS	TS EN 20105	Not worse than 4	Not worse than 4	Class
LOCKING RESISTANCE	ISO 24334	-	Fl ≥ 1 kN/m Fs ≥ 2 kN/m	N / mm ²

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F-İSKY-02/13

		ÇAMSAN ENTEGRE LAMINATE FLOORING QUALITY SPECIFICATIONS		
CHARACTERISTIC	STANDARD	KLASİK - AC4 (EN STANDARD)	MODERN - AC4 (EN STANDARD)	UNIT
DENSITY	ÇAMSAN ENTEGRE	920 ± %3	920 ± %3	kg/m ³
THICKNESS OF THE ELEMENT (t)	TS EN 13329+A2	$\Delta t_{average} \leq 0,50$, $t_{max} - t_{min} \leq 0,50$	$\Delta t_{average} \leq 0,50$, $t_{max} - t_{min} \leq 0,50$	mm
WIDTH OF THE SURFACE LAYER (W)		$\Delta W_{average} \leq 0,10$, $\Delta l_{average} \leq 0,10$, $W_{max} - W_{min} \leq 0,20$, $L_{max} - L_{min} \leq 0,20$	$\Delta W_{average} \leq 0,10$, $\Delta l_{average} \leq 0,10$, $W_{max} - W_{min} \leq 0,20$, $L_{max} - L_{min} \leq 0,20$	mm
LENGTH OF THE SURFACE LAYER (l)		$l \leq 1500 : \Delta l \leq 0,5$ mm, $l > 1500 : \Delta l \leq 0,3$ mm/m.	$l \leq 1500 : \Delta l \leq 0,5$ mm, $l > 1500 : \Delta l \leq 0,3$ mm/m.	mm
SQUARENESS OF THE ELEMENT (q)		$q_{max} \leq 0,20$	$q_{max} \leq 0,20$	mm
STRAIGHTNESS OF THE SURFACE LAYER (s)		$S_{max} \leq 0,30$	$S_{max} \leq 0,30$	mm / m
FLATNESS OF THE ELEMENT (f)		$f_{w, concave} \leq \% 0,15$, $f_{w, convex} \leq \% 0,20$, $f_{l, concave} \leq \% 0,50$, $f_{l, convex} \leq \% 1,00$	$f_{w, concave} \leq \% 0,15$, $f_{w, convex} \leq \% 0,20$, $f_{l, concave} \leq \% 0,50$, $f_{l, convex} \leq \% 1,00$	mm
OPENING BETWEEN ELEMENTS(O)		$O_{average} \leq 0,15$, $O_{max} \leq 0,20$	$O_{average} \leq 0,15$, $O_{max} \leq 0,20$	mm
HEIGHT DIFFERENCE BETWEEN ELEMENTS		$h_{average} \leq 0,10$, $h_{max} \leq 0,15$	$h_{average} \leq 0,10$, $h_{max} \leq 0,15$	mm
SURFACE SOUNDNESS		TS EN 13329 / TS EN 311	AC3 ≥ 1,00	AC4 ≥ 1,25
THICKNESS SWELLING	TS EN 13329	≤ %18	≤ %18	%
HUMIDITY	TS EN 322	%4 ≤ H ≤ %10 $H_{max} - H_{min} \leq \%3$	%4 ≤ H ≤ %10 $H_{max} - H_{min} \leq \%3$	%
FREE FORMALDEHYDE AMOUNT	TS EN 12460-3	E0: ≤ 1,75 E1: 1,75 < x ≤ 3,50	E0: ≤ 1,75 E1: 1,75 < x ≤ 3,50	mg / m ² . h
DIMENSIONAL VARIATIONS AFTER CHANGES IN RELATIVE HUMIDITY	TS EN 13329 / TS EN 318	$\delta l_{average} \leq 0,9$, $\delta W_{average} \leq 0,9$	$\delta l_{average} \leq 0,9$, $\delta W_{average} \leq 0,9$	mm
ABRASION RESISTANCE	TS EN 13329	AC4; ≥ 4000	AC4; ≥ 4000	Rev
SMALL-DIAMETER BALL IMPACT RESISTANCE	TS EN 17368	≥ 35 mm	≥ 35 mm	N, mm
LARGE-DIAMETER BALL IMPACT RESISTANCE	TS EN 13329 / TS EN 438-2	≥ 750 mm	≥ 750 mm	
RESISTANCE TO STAINING	TS EN 438-2	5 (group 1 ve group 2), 4 (group 3)	5 (group 1 ve group 2), 4 (group 3)	Class
EFFECT OF A CASTOR CHAIR	TS EN 425	25.000 cycles - no damage	25.000 cycles - no damage	View
EFFECT OF A FURNITURE LEG	TS EN 424	No damage shall be visible	No damage shall be visible	View
APPEARANCE, SURFACE DEFECTS	TS EN 438-2	Minor surface defects as defined in the EN 438 series are permitted.	Minor surface defects as defined in the EN 438 series are permitted.	View
STATIC INDENTATION	TS EN ISO 24343-1	≤ 0,05	≤ 0,05	mm
LIGHT FASTNESS	TS EN 20105	Not worse than 4	Not worse than 4	Class
LOCKING RESISTANCE	ISO 24334	Fl ≥ 1 kN/m Fs ≥ 2 kN/m	Fl ≥ 1 kN/m Fs ≥ 2 kN/m	N / mm ²

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	ÇAMSAN ENTEGRE LAMINATE FLOORING QUALITY SPECIFICATIONS		
CHARACTERISTIC	METHOD	PLATINUM - AC4 (EN STANDARD)	UNIT
THICKNESS OF THE ELEMENT (t)	TS EN 13329+A2	$\Delta t_{average} \leq 0,50$, $t_{max.} - t_{min.} \leq 0,50$	mm
WIDTH OF THE SURFACE LAYER (W)		$\Delta W_{average} \leq 0,10$ $\Delta l_{average} \leq 0,10$, $W_{max.} - W_{min.} \leq 0,20$ $L_{max.} - L_{min.} \leq 0,20$	mm
LENGTH OF THE SURFACE LAYER (l)		$l \leq 1500 : \Delta l \leq 0,5$ mm, $l > 1500 : \Delta l \leq 0,3$ mm/m.	mm
SQUARENESS OF THE ELEMENT (q)		$q_{max.} \leq 0,20$	mm
STRAIGHTNESS OF THE SURFACE LAYER (s)		$S_{max.} \leq 0,30$	mm / m
FLATNESS OF THE ELEMENT (f)		$f_{w, concave} \leq \% 0,15$, $f_{w, convex} \leq \% 0,20$ $f_{l, concave} \leq \% 0,50$, $f_{l, convex} \leq \% 1,00$	mm
OPENING BETWEEN ELEMENTS(O)		$O_{average} \leq 0,15$, $O_{max.} \leq 0,20$	mm
HEIGHT DIFERENCE BETWEEN ELEMENTS		$h_{average} \leq 0,10$, $h_{max.} \leq 0,15$	mm
SURFACE SOUNDNESS		TS EN 13329 / TS EN 311	AC4 $\geq 1,25$
THICKNESS SWELLİNG	TS EN 13329	$\leq \%18$	%
HUMIDITY	TS EN 322	$\%4 \leq H \leq \%10$ $H_{max.} - H_{min.} \leq \%3$	%
FREE FORMALDEHYDE AMOUNT	TS EN 12460-3	E0: $\leq 1,75$ E1: $1,75 < x \leq 3,50$	mg / m ² . h
DIMENSIONAL VARIATIONS AFTER CHANGES IN RELATIVE HUMIDITY	TS EN 13329 / TS EN 318	$\delta l_{average} \leq 0,9$, $\delta W_{average} \leq 0,9$	mm
ABRASION RESISTANCE	TS EN 13329	AC4; ≥ 4000	Rev
SMALL-DIAMETER BALL IMPACT RESİSTANCE	TS EN 13329 / TS EN 438-2	≥ 35 mm	N, mm
LARGE-DIAMETER BALL IMPACT RESİSTANCE	TS EN 13329 / TS EN 438-2	≥ 750 mm	
RESISTANCE TO STAINING	TS EN 438-2	5 (group 1 ve group 2), 4 (group 3)	Class
EFFECT OF A CASTOR CHAIR	TS EN 425	No change in apperance or damage	View
EFFECT OF A FURNITURE LEG	TS EN 424	No damage shall be visible	View
APPERANCE, SURFACE DEFECTS	TS EN 438-2	Minor surface imperfections as described in EN 438	View
STATIC INDENTATION	TS EN ISO 24343-1	$\leq 0,05$	mm
LIGHT FASTNESS	TS EN ISO 4892-2	Not worse than 4	Class
LOCKING RESISTANCE	ISO 24334	F1 ≥ 1 kN/m Fs ≥ 2 kN/m	N / mm ²

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SÜP. BÜYÜK SANAYİ
KURULUŞU
2021



		ÇAMSAN ENTEGRE LAMINATE FLOORING QUALITY SPECIFICATIONS			
CHARACTERISTIC	STANDARD	8mm MODERN - AC4 V GROOVE (EN STANDARD)	8mm MODERN LONG - AC4 V GROOVE (EN STANDARD)	UNIT	
PANEL DIMENSIONS	ÇAMSAN ENTEGRE	192,5x1200	192,5x1380	mm	
DENSITY		920 ± %3	920 ± %3	kg/m ³	
THICKNESS SWELLING	TS EN 13329+A2	≤ %18	≤ %18	%	
WIDTH OF THE SURFACE LAYER (W)		$\Delta W_{average} \leq 0,10$ $\Delta l_{average} \leq 0,10$ $W_{max} - W_{min} \leq 0,20$ $L_{max} - L_{min} \leq 0,20$	$\Delta W_{average} \leq 0,10$ $\Delta l_{average} \leq 0,10$ $W_{max} - W_{min} \leq 0,20$ $L_{max} - L_{min} \leq 0,20$	mm	
LENGTH OF THE SURFACE LAYER (l)		$l \leq 1500 : \Delta l \leq 0,5 \text{ mm,}$ $l > 1500 : \Delta l \leq 0,3 \text{ mm/m.}$	$l \leq 1500 : \Delta l \leq 0,5 \text{ mm,}$ $l > 1500 : \Delta l \leq 0,3 \text{ mm/m.}$	mm	
SQUARENESS OF THE ELEMENT (q)		$q_{max} \leq 0,20$	$q_{max} \leq 0,20$	mm	
STRAIGHTNESS OF THE SURFACE LAYER (s)		$S_{max} \leq 0,30$	$S_{max} \leq 0,30$	mm / m	
FLATNESS OF THE ELEMENT (f)		$f_{w, concave} \leq \% 0,15,$ $f_{w, convex} \leq \% 0,20$ $f_{l, concave} \leq \% 0,50,$ $f_{l, convex} \leq \% 1,00$	$f_{w, concave} \leq \% 0,15,$ $f_{w, convex} \leq \% 0,20$ $f_{l, concave} \leq \% 0,50,$ $f_{l, convex} \leq \% 1,00$	mm	
OPENING BETWEEN ELEMENTS(O)		$O_{average} \leq 0,15,$ $O_{max} \leq 0,20$	$O_{average} \leq 0,15,$ $O_{max} \leq 0,20$	mm	
HEIGHT DIFFERENCE BETWEEN ELEMENTS		$h_{average} \leq 0,10,$ $h_{max} \leq 0,15$	$h_{average} \leq 0,10,$ $h_{max} \leq 0,15$	mm	
SURFACE SOUNDNESS		TS EN 13329 / TS EN 311	≥ 1,25	≥ 1,25	N / mm ²
HUMIDITY		TS EN 322	%4 ≤ H ≤ %10 $H_{max} - H_{min} \leq \%3$	%4 ≤ H ≤ %10 $H_{max} - H_{min} \leq \%3$	%
FREE FORMALDEHYDE AMOUNT	TS EN 12460-3	E0: ≤ 1,75 E1: 1,75 < x ≤ 3,50	E0: ≤ 1,75 E1: 1,75 < x ≤ 3,50	mg / m ² . h	
DIMENSIONAL VARIATIONS AFTER CHANGES IN RELATIVE HUMIDITY	TS EN 13329 / TS EN 318	$\delta l_{average} \leq 0,9,$ $\delta W_{average} \leq 0,9$	$\delta l_{average} \leq 0,9,$ $\delta W_{average} \leq 0,9$	mm	
ABRASION RESISTANCE	TS EN 13329	≥ 4000	≥ 4000	Rev	
SMALL-DIAMETER BALL IMPACT RESISTANCE	TS EN 17368	≥ 35 mm	≥ 35 mm	N, mm	
LARGE-DIAMETER BALL IMPACT RESISTANCE	TS EN 13329 / TS EN 438-2	≥ 750 mm	≥ 750 mm		
RESISTANCE TO STAINING	TS EN 438-2	5 (group 1 ve group 2), 4 (group 3)	5 (group 1 ve group 2), 4 (group 3)	Class	
EFFECT OF A CASTOR CHAIR	TS EN 425	25.000 cycles - no damage	25.000 cycles - no damage	View	
EFFECT OF A FURNITURE LEG	TS EN 424	No damage shall be visible	No damage shall be visible	View	
APPEARANCE, SURFACE DEFECTS	TS EN 438-2	Minor surface defects as defined in the EN 438 series are permitted.	Minor surface defects as defined in the EN 438 series are permitted.	View	
STATIC INDENTATION	TS EN ISO 24343-1	≤ 0,05	≤ 0,05	mm	
LIGHT FASTNESS	TS EN 20105	Not worse than 4	Not worse than 4	Class	
LOCKING RESISTANCE	ISO 24334	FI ≥ 1 kN/m Fs ≥ 2 kN/m	FI ≥ 1 kN/m Fs ≥ 2 kN/m	N / mm ²	

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	ÇAMSAN ENTEGRE LAMINATE FLOORING QUALITY SPECIFICATIONS		
CHARACTERISTIC	STANDARD	12mm SERENZA - AC5 (EN STANDARD)	UNIT
DENSITY	ÇAMSAN ENTEGRE	920 ± %3	kg/m ³
THICKNESS OF THE ELEMENT (t)	TS EN 13329+A2	$\Delta t_{\text{average}} \leq 0,50$, $t_{\text{max.}} - t_{\text{min.}} \leq 0,50$	mm
WIDTH OF THE SURFACE LAYER (W)		$\Delta W_{\text{average}} \leq 0,10$, $\Delta l_{\text{average}} \leq 0,10$, $W_{\text{max.}} - W_{\text{min.}} \leq 0,20$, $L_{\text{max.}} - L_{\text{min.}} \leq 0,20$	mm
LENGTH OF THE SURFACE LAYER (l)		$l \leq 1500 : \Delta l \leq 0,5 \text{ mm}$, $l > 1500 : \Delta l \leq 0,3 \text{ mm/m}$.	mm
SQUARENESS OF THE ELEMENT (q)		$q_{\text{max.}} \leq 0,20$	mm
STRAIGHTNESS OF THE SURFACE LAYER (s)		$S_{\text{max.}} \leq 0,30$	mm / m
FLATNESS OF THE ELEMENT (f)		$f_{w, \text{concave}} \leq \% 0,15$, $f_{w, \text{convex}} \leq \% 0,20$, $f_{l, \text{concave}} \leq \% 0,50$, $f_{l, \text{convex}} \leq \% 1,00$	mm
OPENING BETWEEN ELEMENTS(O)		$O_{\text{average}} \leq 0,15$, $O_{\text{max.}} \leq 0,20$	mm
HEIGHT DIFERENCE BETWEEN ELEMENTS		$h_{\text{average}} \leq 0,10$, $h_{\text{max.}} \leq 0,15$	mm
SURFACE SOUNDNESS		TS EN 13329 / TS EN 311	AC5 $\geq 1,25$
THICKNESS SWELLING	TS EN 13329	$\leq \% 15$	%
HUMIDITY	TS EN 322	$\% 4 \leq H \leq \% 10$, $H_{\text{max.}} - H_{\text{min.}} \leq \% 3$	%
FREE FORMALDEHYDE AMOUNT	TS EN 12460-3	E0: $\leq 1,75$, E1: $1,75 < x \leq 3,50$	mg / m ² . h
DIMENSIONAL VARIATIONS AFTER CHANGES IN RELATIVE HUMIDITY	TS EN 13329 / TS EN 318	$\delta l_{\text{average}} \leq 0,9$, $\delta W_{\text{average}} \leq 0,9$	mm
ABRASION RESISTANCE	TS EN 13329	AC5; ≥ 6000	Rev
SMALL-DIAMETER BALL IMPACT RESISTANCE	TS EN 17368	$\geq 70 \text{ mm}$	N, mm
LARGE-DIAMETER BALL IMPACT RESISTANCE	TS EN 13329 / TS EN 438-2	$\geq 1000 \text{ mm}$	
RESISTANCE TO STAINING	TS EN 438-2	5 (group 1 ve group 2), 4 (group 3)	Class
EFFECT OF A CASTOR CHAIR	TS EN 425	25.000 cycles - no damage	View
EFFECT OF A FURNITURE LEG	TS EN 424	No damage shall be visible	View
APPERANCE, SURFACE DEFECTS	TS EN 438-2	Minor surface defects as defined in the EN 438 series are permitted.	View
STATIC INDENTATION	TS EN ISO 24343-1	$\leq 0,05$	mm
LIGHT FASTNESS	TS EN 20105	Not worse than 4	Class
LOCKING RESISTANCE	ISO 24334	FI $\geq 1 \text{ kN/m}$, Fs $\geq 2 \text{ kN/m}$	N / mm ²

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CHARACTERISTIC	STANDARD	8mm GLORIA [∞] - AC4 (EN STANDARD)	8mm GLORIA STAR - AC5 (EN STANDARD)	8mm LEGEND - AC5 (EN STANDARD)	12mm GLORIA - AC5 (EN STANDARD)	UNIT	
DENSITY	ÇAMSAN ENTEGRE	920 ± %3	920 ± %3	920 ± %3	920 ± %3	kg/m ³	
THICKNESS SWELLING		≤ %18	≤ %15	≤ %15	≤ %15	%	
WIDTH OF THE SURFACE LAYER (W)	TS EN 13329+A2	$\Delta W_{average} \leq 0,10$ $\Delta l_{average} \leq 0,10$, $W_{max} - W_{min} \leq 0,20$ $L_{max} - L_{min} \leq 0,20$	$\Delta W_{average} \leq 0,10$ $\Delta l_{average} \leq 0,10$, $W_{max} - W_{min} \leq 0,20$ $L_{max} - L_{min} \leq 0,20$	$\Delta W_{average} \leq 0,10$ $\Delta l_{average} \leq 0,10$, $W_{max} - W_{min} \leq 0,20$ $L_{max} - L_{min} \leq 0,20$	$\Delta W_{average} \leq 0,10$ $\Delta l_{average} \leq 0,10$, $W_{max} - W_{min} \leq 0,20$ $L_{max} - L_{min} \leq 0,20$	mm	
LENGTH OF THE SURFACE LAYER (l)		$1 \leq 1500 : \Delta l \leq 0,5$ mm, $1 > 1500 : \Delta l \leq 0,3$ mm/m.	$1 \leq 1500 : \Delta l \leq 0,5$ mm, $1 > 1500 : \Delta l \leq 0,3$ mm/m.	$1 \leq 1500 : \Delta l \leq 0,5$ mm, $1 > 1500 : \Delta l \leq 0,3$ mm/m.	$1 \leq 1500 : \Delta l \leq 0,5$ mm, $1 > 1500 : \Delta l \leq 0,3$ mm/m.	mm	
SQUARENESS OF THE ELEMENT (q)		$q_{max} \leq 0,20$	$q_{max} \leq 0,20$	$q_{max} \leq 0,20$	$q_{max} \leq 0,20$	mm	
STRAIGHTNESS OF THE SURFACE LAYER (s)		$S_{max} \leq 0,30$	$S_{max} \leq 0,30$	$S_{max} \leq 0,30$	$S_{max} \leq 0,30$	mm / m	
FLATNESS OF THE ELEMENT (f)		$f_{w, concave} \leq \% 0,15$, $f_{w, convex} \leq \% 0,20$ $f_{l, concave} \leq \% 0,50$, $f_{l, convex} \leq \% 1,00$	$f_{w, concave} \leq \% 0,15$, $f_{w, convex} \leq \% 0,20$ $f_{l, concave} \leq \% 0,50$, $f_{l, convex} \leq \% 1,00$	$f_{w, concave} \leq \% 0,15$, $f_{w, convex} \leq \% 0,20$ $f_{l, concave} \leq \% 0,50$, $f_{l, convex} \leq \% 1,00$	$f_{w, concave} \leq \% 0,15$, $f_{w, convex} \leq \% 0,20$ $f_{l, concave} \leq \% 0,50$, $f_{l, convex} \leq \% 1,00$	mm	
OPENING BETWEEN ELEMENTS(O)		$O_{average} \leq 0,15$, $O_{max} \leq 0,20$	$O_{average} \leq 0,15$, $O_{max} \leq 0,20$	$O_{average} \leq 0,15$, $O_{max} \leq 0,20$	$O_{average} \leq 0,15$, $O_{max} \leq 0,20$	mm	
HEIGHT DIFFERENCE BETWEEN ELEMENTS		$h_{average} \leq 0,10$, $h_{max} \leq 0,15$	$h_{average} \leq 0,10$, $h_{max} \leq 0,15$	$h_{average} \leq 0,10$, $h_{max} \leq 0,15$	$h_{average} \leq 0,10$, $h_{max} \leq 0,15$	mm	
SURFACE SOUNDNESS		TS EN 13329 / TS EN 311	≥ 1,25	≥ 1,25	≥ 1,25	≥ 1,25	N / mm ²
HUMIDITY		TS EN 322	%4 ≤ H ≤ %10 $H_{max} - H_{min} \leq \%3$	%4 ≤ H ≤ %10 $H_{max} - H_{min} \leq \%3$	%4 ≤ H ≤ %10 $H_{max} - H_{min} \leq \%3$	%4 ≤ H ≤ %10 $H_{max} - H_{min} \leq \%3$	%
FREE FORMALDEHYDE AMOUNT	TS EN 12460-3	E0: ≤ 1,75 E1: 1,75 < x ≤ 3,50	E0: ≤ 1,75 E1: 1,75 < x ≤ 3,50	E0: ≤ 1,75 E1: 1,75 < x ≤ 3,50	E0: ≤ 1,75 E1: 1,75 < x ≤ 3,50	mg / m ² . h	
DIMENSIONAL VARIATIONS AFTER CHANGES IN RELATIVE HUMIDITY	TS EN 13329 / TS EN 318	$\delta l_{average} \leq 0,9$, $\delta W_{average} \leq 0,9$	$\delta l_{average} \leq 0,9$, $\delta W_{average} \leq 0,9$	$\delta l_{average} \leq 0,9$, $\delta W_{average} \leq 0,9$	$\delta l_{average} \leq 0,9$, $\delta W_{average} \leq 0,9$	mm	
ABRASION RESISTANCE	TS EN 13329	AC4; ≥ 4000	AC5; ≥ 6000	AC5; ≥ 6000	AC5; ≥ 6000	Rev	
SMALL-DIAMETER BALL IMPACT RESISTANCE	TS EN 17368	≥ 35 mm	≥ 70 mm	≥ 70 mm	≥ 70 mm	N, mm	
LARGE-DIAMETER BALL IMPACT RESISTANCE	TS EN 13329 / TS EN 438-2	≥ 750 mm	≥ 1000 mm	≥ 1000 mm	≥ 1000 mm		
RESISTANCE TO STAINING	TS EN 438-2	5 (group 1 ve group 2), 4 (group 3)	5 (group 1 ve group 2), 4 (group 3)	5 (group 1 ve group 2), 4 (group 3)	5 (group 1 ve group 2), 4 (group 3)	Class	
EFFECT OF A CASTOR CHAIR	TS EN 425	25.000 cycles - no damage	No change in appearance or damage	25.000 cycles - no damage	25.000 cycles - no damage	View	
EFFECT OF A FURNITURE LEG	TS EN 424	No damage shall be visible	No damage shall be visible	No damage shall be visible	No damage shall be visible	View	
APPEARANCE, SURFACE DEFECTS	TS EN 438-2	Minor surface defects as defined in the EN 438 series are permitted.	Minor surface defects as defined in the EN 438 series are permitted.	Minor surface defects as defined in the EN 438 series are permitted.	Minor surface defects as defined in the EN 438 series are permitted.	View	
STATIC INDENTATION	TS EN ISO 24343-1	≤ 0,05	≤ 0,05	≤ 0,05	≤ 0,05	mm	
LIGHT FASTNESS	TS EN 20105	Not worse than 4	Not worse than 4	Not worse than 4	Not worse than 4	Class	
LOCKING RESISTANCE	ISO 24334	Fl ≥ 1 kN/m Fs ≥ 2 kN/m	Fl ≥ 1 kN/m Fs ≥ 2 kN/m	Fl ≥ 1 kN/m Fs ≥ 2 kN/m	Fl ≥ 1 kN/m Fs ≥ 2 kN/m	N / mm ²	

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Faks : +90 264 654 58 16

www.camsan.com

www.parkelam.com

V.D. Yenikapı
V.D. NO: 228 005 3797
Mersis No: 0228005379700014



DECLARATION OF PERFORMANCE

1. **Declaration Number** F-KKLB-75
2. **Product Code** PARKELAM
3. **Type:** Party or Serial number or other article that can describe (Pursuant to the fourth paragraph of Article 13 of the Construction Products Regulation) **KLASİK, MODERN, PLATINUM, AVANGARD, SILVER, PLATINUM PLUS, AVANGARD PLUS, LEGEND, SERENZA, DİBA**
4. **Purpose of:** Intended purpose by the manufacturer according to the relevant technical specifications of the building material **LAMINATE FLOORING**
5. **Manufacturer: Registered trade name or registered trademark and address of communication and production place:** (Pursuant to the fifth paragraph of Article 13 of Regulation) **ÇAMSAN ENTEGRE AĞAÇ SANAYİ ve TİCARET A.Ş.**
Adres: 2. Organize Sanayi Bölgesi Hendek/SAKARYA
Tel : 0264 654 5818
Faks : 0264 654 5816
e-mail : sekreterlik@camsan.com.tr
6. **Evaluation and Verification of Performance Invariance System:** (As specified in Annex 5 of the Construction Products Regulation) **System 3**
7. **Technical Evaluation and Notified Institution:** Declaration of performance of construction material covered by a accordance standard **Turkish Standard Institute (TSE)**



8. Declared Performance:

Basic Characteristics	Test Standard	Performance	Harmonized Technical Specification
Reaction of Fire	TS EN 13501-1+A1	Bfl-s1	TS EN 14041
Pentachlorophenol Ingredient	TS EN 12673	Not Include	
Formaldehyde Emission	TS EN 717-1	E1	
Water Proofing	TS EN 13553	NPD	
Slipperiness	TS EN 13893	≥ 0,30 (DS)	
Electrical Conduct	TS EN 1081	≤ 1,0×10 ⁹ Ω	
Thermal Conductivity	TS EN 12664	0,1559 W/mK	

Document No-1: PARKELAM E1 TS EN 717-1 (14.0.30.4.54.00/E1-003)

Document No-2: PARKELAM TS EN 13329+A1 (001949-TSE-02/04)

8. Declaration:

The performance of the material described in Article 2 and 3 compatible to the performance declared in Article 8. This declaration of performance is prepared solely under the responsibility of the manufacturer as defined in Article 5. This declaration of performance that is prepared in accordance with the Construction Products Regulation is only published under the responsibility of the manufacturer identified above.

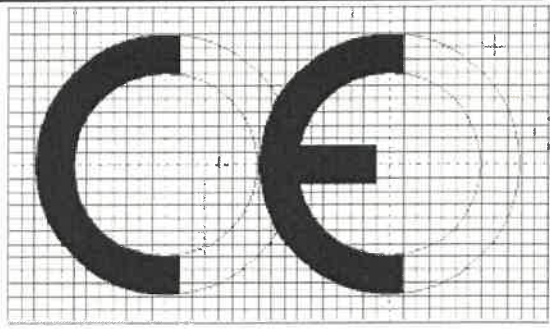
The CE Mark was first attached to PARKELAM products on 13 April 2015. The revision was made on 1 December 2020.

Manufacturer and Signature:

Mr. Metinay TOPKAYA

ÇAMSAN ENTEGRE ve AĞAÇ SANAYİ TİCARET A.Ş.
Technical Deputy General Manager

Sakarya 2. Organize Sanayi Bölgesi
Tel.: 0264 654 58 76 (pbx) Fax: 0264 654 58 15
Yenikapı Vadi Dairesi: 228 005 3797
Mersis No: 0228 0053 7970 0025



1783

**ÇAMSAN ENTEGRE
AĞAÇ SANAYİ ve TİCARET A.Ş.**

2. Organize Sanayi Bölgesi
Hendek / SAKARYA

15

Laminate Flooring

F-KKLB-75

LAB17-DS/169-170-171-172

TS EN 14041

Reaction of Fire	Bfl-s1
Pentachlorophenol Ingredient	Not Inc
Formaldehyde Emission	E1
Thermal Conductivity	$\geq 0,075$ W/mK
Slipperiness	$\geq 0,30$ (DS)
Electrical Conduct	$\leq 1,0 \times 10^9$ Ω
Thermal Conductivity	NPD



Fraunhofer

WKI

E1

hEN

CERTIFICATE

WKI-518

According to contract No. 518 it is confirmed that the product

Laminated flooring "AC3, class 31", "AC4, class 32", "AC5, class 33"
laminated floor coverings, melamine-urea-formaldehyde (MUF), laminated
in the thickness range: ≤ 12 mm

manufactured by

Camsan Integrated Wood Trade Industry and Trade Co.
Sakarya 2. Organize Sanayi Bölgesi
54300 Hendek-Sakarya
Turkey

complies with the formaldehyde class E1
according to EN 14041:2004+AC:2006. By the

Fraunhofer-Institute for Wood Research
Wilhelm-Klauditz-Institut WKI
Bienroder Weg 54E, 38108 Braunschweig, Germany

an initial inspection of the factory and the factory production control to determine the formaldehyde emission was carried out. The personnel and equipment requirements for the proper manufacture of the product are fulfilled.

This certificate was first issued on July 7, 2015 and remains valid as long as the Fraunhofer Institute for Wood Research WKI carries out the continuous external surveillance of the factory and the factory production control as well as the testing of the product regarding the formaldehyde emission according to the method of the factory production control every six months.

Fraunhofer-Gesellschaft zur
Förderung der angewandten
Forschung e.V., München

Executive Board

Prof. Dr.-Ing. habil. Prof. E.h.
Dr.-Ing. E.h. mult. Dr. h.c. mult.
Reimund Neugebauer, Präsident
Dr. rer. publ. ass. iur. Alexander Kurz
Dipl.-Kfm. Andreas Meuer
Prof. Dr. rer. nat. habil. Ralf B. Wehrspohn

WKI is a registered mark of
the Fraunhofer-Gesellschaft

Dipl.-Ing. Harald Schwab
Head of the Testing, Supervision and Certifying Body
Braunschweig, September 3, 2020





TÜRK STANDARDLARI ENSTİTÜSÜ
E1 UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO E1

BELGE NUMARASI REFERENCE NUMBER OF LICENCE	001949-E1-02/01
BELGENİN İLK VERİLİŞ TARİHİ DATE OF FIRST ISSUE OF LICENCE	20.03.2014
BELGENİN SON GEÇERLİLİK TARİHİ LICENCE VALID UNTIL	10.12.2024
BELGE SAHİBİ KURULUŞUN ADI NAME OF THE LICENCE HOLDER	ÇAMSAN ENTEGRE AĞAÇ SANAYİ VE TİCARET ANONİM ŞİRKETİ
BELGE SAHİBİ KURULUŞUN ADRESİ ADDRESS OF THE LICENCE HOLDER	YEŞİLCE MAH. EMEKTAR SK. NO:4 /2- KAĞITHANE İSTANBUL/TÜRKİYE
ÜRETİM YERİ ADI NAME OF THE MANUFACTURING PLACE	ÇAMSAN ENTEGRE AĞAÇ SANAYİ VE TİCARET A.Ş.
ÜRETİM YERİ ADRESİ ADDRESS OF THE MANUFACTURING PLACE	SAKARYA 2. ORGANİZE SANAYİ BÖLGESİ HENDEK SAKARYA / TÜRKİYE
İPTAL EDİLEN BELGE NUMARASI (Varsa) INDICATION OF SUPERSEDED LICENCE (if any)	14.0.30.4.54.00/E1-003
TESCİLLİ TİCARİ MARKASI REGISTERED TRADE MARK	PARKELAM
İLGİLİ TÜRK STANDARDI RELATED TURKISH STANDARD	TS EN 717-1 / 13.04.2006
BELGE KAPSAMI SCOPE OF LICENCE	

- TİCARİ KULLANIM, AŞINMA SINIFI 31 (AC3), FORMALDEHİT SINIFI E1 LAMİNAT YER DÖŞEMELERİ
- TİCARİ KULLANIM, AŞINMA SINIFI 32 (AC4), FORMALDEHİT SINIFI E1 LAMİNAT YER DÖŞEMELERİ
- TİCARİ KULLANIM, AŞINMA SINIFI 33 (AC5), FORMALDEHİT SINIFI E1 LAMİNAT YER DÖŞEMELERİ

e-imzalı/e-signed

01.02.2023

Belgelendirme Merkezi Başkanı Adına
ÖMER FARUK DUMAN

SAKARYA BELGELENDİRME MÜDÜRÜ

*Bu belge, belgelendirilen ürünün, üretim yerinin Enstitümüzün belirlediği şartları karşıladığını da gösterir.

*Bu belge, hiç bir suretle tahrif edilemez, kısmen veya okunmasını zorlaştıracak şekilde çoğaltılamaz, kazıntı ve silinti yapılamaz.

*TSE SAKARYA BELGELENDİRME MÜDÜRLÜĞÜ * Adres: 1. Organize Sanayi Bölgesi Doğu Kapısı Şehit Zekeriya Gök Yuman Cad. Hanlı / ADAPAZARI * Telefon: 2642912675* Faks: 2642912678

*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta : bmb@tse.org.tr , web : www.tse.org.tr

<https://evrakkontrol.tse.org.tr/BelgeDogrulama.aspx?p=s1uglkaj> adresinden belgenin doğruluğunu ve geçerliliğini sorgulayınız.



1 / 1



YERLİ MALI BELGESİ



Belgenin Veriliş Tarihi : 21.08.2023 Belgenin Geçerlilik Tarihi : 21.08.2024 Belge No : 20231188117103

Üretici Ünvanı: ÇAMSAN ENTEGRE AĞAÇ SANAYİ VE TİCARET A.Ş ADAPAZARI FABRİKASI

İşyeri Adresi: 2. Organize Sanayi Bölgesi HENDEK/SAKARYA

Üreticinin Vergi Kimlik No: 2280053797 TC Kimlik No: MERSİS No : 0228005379700025

Telefon: 264-6545818

E-posta: camsan@camsan.com.tr

Faks: 264-6545816

Web Adresi: http://www.camsan.com.tr/

Ticaret Sicil No: 903

Üye Sicil No: 878

Ürün Adı: LAMİNATLI PARKE

Ürün Kodu (PRODCOM/GTİP): 16.22.10.30.00 /

Teknik Özellikleri(Marka Adı, Modeli, Seri Numarası, Cinsi): PARKELAM PARKE

Kapasite Raporunun Tarih :02.08.2023 No : 30024 Geçerlilik Süresi :02.08.2025

Sanayi Sicil Belgesinin Tarih : 23.09.2011 No : 562392

Yerli Katkı Oranı : % 70,84

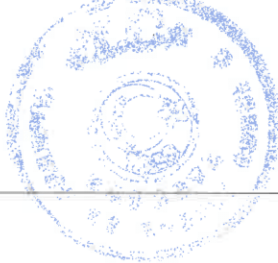
Ürünün Teknolojik Düzeyi (düşük/orta-düşük/orta-yüksek/yüksek)(Eurostat) : düşük

Diğer bilgi ve belgeler :

İşbu belge Bilim, Sanayi ve Teknoloji Bakanlığı'nın 13/09/2014 tarih ve 29118 sayılı Resmi Gazetede yayımlanan "Yerli Malı Tebliği (SGM 2014/35)"ne istinaden ve TOBB tarafından hazırlanan "Yerli Malı Belgesinin Düzenlenmesi Uygulama Esaslarına" göre 21.08.2023 tarihinde düzenlenmiştir. Belgenin geçerlilik süresi veriliş tarihinden itibaren bir yıl geçerlidir.

Düzenleyen Oda/Borsa

SAKARYA TİCARET VE SANAYİ ODASI



Onaylayan

Şevket KIRICI

Genel Sekreter


Mümin HAŞIL
Genel Sekreter Yardımcısı