TÜRKİYE'NİN
500 BÜYÜK SANAYİ
KURULUŞU
2018

Çamsan entegre

ÇAMSAN ENTEGRE LAMINATE FLOORING QUALITY SPESIFICATIONS

CHARACTERISTIC	METHOD	KLASİK - AC3 (TSE STANDARD)	SİLVER - AC3 (TSE STANDARD)	MODERN - AC4 (TSE STANDARD)	AVANGARD - AC4 (TSE STANDARD)	PLATINUM - AC4 (TSE STANDARD)	LEGEND - AC5 (TSE STANDARD)	AVANGARD PLUS - AC5 (TSE STANDARD)	PLATINUM PLUS - AC5 (TSE STANDARD)	UNIT
THICKNESS OF THE ELEMENT (t)	TS EN 13329+A1	$\Delta t_{average} \leq 0,50$, $t_{max.} - t_{min.} \leq 0,50$	$\Delta t_{average} \leq 0,50$, $t_{max.} - t_{min.} \leq 0,50$	$\Delta t_{average} \leq 0,50$, $t_{max.} - t_{min.} \leq 0,50$	$\Delta t_{average} \leq 0,50$, $t_{max.} - t_{min.} \leq 0,50$	$\Delta t_{average} \leq 0,50$, $t_{max.} - t_{min.} \leq 0,50$	$\Delta t_{average} \leq 0,50$, $t_{max.} - t_{min.} \leq 0,50$	$\Delta t_{average} \leq 0,50$, $t_{max.} - t_{min.} \leq 0,50$	$\Delta t_{average} \leq 0,50$, $t_{max.} - t_{min.} \leq 0,50$	mm
WİDTH OF THE SURFACE LAYER (W)		$\Delta w_{average} \leq 0,10$ $\Delta l_{average} \leq 0,10$, $W_{max.} - W_{min.} \leq 0,20$ $L_{max.} - L_{min.} \leq 0,20$	$\Delta w_{average} \leq 0,10$ $\Delta l_{average} \leq 0,10$, $W_{max.} - W_{min.} \leq 0,20$ $L_{max.} - L_{min.} \leq 0,20$	$\Delta w_{average} \leq 0,10$ $\Delta l_{average} \leq 0,10$, $W_{max.} - W_{min.} \leq 0,20$ $L_{max.} - L_{min.} \leq 0,20$	$\Delta w_{average} \leq 0,10$ $\Delta l_{average} \leq 0,10$, $W_{max.} - W_{min.} \leq 0,20$ $L_{max.} - L_{min.} \leq 0,20$	$\Delta w_{average} \leq 0,10$ $\Delta l_{average} \leq 0,10$, $W_{max.} - W_{min.} \leq 0,20$ $L_{max.} - L_{min.} \leq 0,20$	$\Delta w_{average} \leq 0,10$ $\Delta l_{average} \leq 0,10$, $W_{max.} - W_{min.} \leq 0,20$ $L_{max.} - L_{min.} \leq 0,20$	$\Delta w_{average} \leq 0,10$ $\Delta l_{average} \leq 0,10$, $W_{max.} - W_{min.} \leq 0,20$ $L_{max.} - L_{min.} \leq 0,20$	$\Delta w_{average} \leq 0,10$ $\Delta l_{average} \leq 0,10$, $W_{max.} - W_{min.} \leq 0,20$ $L_{max.} - L_{min.} \leq 0,20$	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.	$l \leq 1500 : \Delta l \leq 0,5$ 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.	$l \leq 1500 : \Delta l \leq 0,5$ 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.	$l \leq 1500 : \Delta l \leq 0,5$ 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)		$q_{max.} \leq 0,20$	$q_{max.} \leq 0,20$	$q_{max.} \leq 0,20$	$q_{max.} \leq 0,20$	$q_{max.} \leq 0,20$	$q_{max.} \leq 0,20$	$q_{max.} \leq 0,20$	$q_{max.} \leq 0,20$	mm
STRAİGHTNESS OF THE SURFACE LAYER (s)		$S_{max.} \leq 0,30$	$S_{max.} \leq 0,30$	$S_{max.} \leq 0,30$	$S_{max.} \leq 0,30$	$S_{max.} \leq 0,30$	$S_{max.} \leq 0,30$	$S_{max.} \leq 0,30$	$S_{max.} \leq 0,30$	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	$f_{w, concave} \leq$ % 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)		$O_{average} \leq 0,15$, $O_{max.} \leq 0,20$	$O_{average} \leq 0,15$, $O_{max.} \leq 0,20$	$O_{average} \leq 0,15$, $O_{max.} \leq 0,20$	$O_{average} \leq 0,15$, $O_{max.} \leq 0,20$	$O_{average} \leq 0,15$, $O_{max.} \leq 0,20$	$O_{average} \leq 0,15$, $O_{max.} \leq 0,20$	$O_{average} \leq 0,15$, $O_{max.} \leq 0,20$	$O_{average} \leq 0,15$, $O_{max.} \leq 0,20$	mm
HEIGHT DIFERENCE BETWEEN ELEMENTS		$h_{average} \leq 0,10$, $h_{max.} \leq 0,15$	$h_{average} \leq 0,10$, $h_{max.} \leq 0,15$	$h_{average} \leq 0,10$, $h_{max.} \leq 0,15$	$h_{average} \leq 0,10$, $h_{max.} \leq 0,15$	$h_{average} \leq 0,10$, $h_{max.} \leq 0,15$	$h_{average} \leq 0,10$, $h_{max.} \leq 0,15$	$h_{average} \leq 0,10$, $h_{max.} \leq 0,15$	$h_{average} \leq 0,10$, $h_{max.} \leq 0,15$	mm
SURFACE SOUNDNESS	TS EN 13329 / TS EN 311	AC3 ≥ 1,00	AC3 ≥ 1,00	AC3 ≥ 1,00	AC4 ≥ 1,25	AC4 ≥ 1,25	AC5 ≥ 1,25	AC5 ≥ 1,25	AC5 ≥ 1,25	N / mm^2
THICKNESS SWELLİNG	TS EN 13329	≤ %18	≤ %18	≤ %18	≤ %18	≤ %18	≤ %15	≤ %15	≤ %15	%
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	%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	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 / m². h
DIMENSIONAL VARIATIONS AFTER CHANGES IN RELATIVE HUMIDITY	TS EN 13329 / TS EN 318	$\delta l_{average} \leq 0,9$, $\delta W_{average} \leq 0,9$	$\delta l_{average} \leq 0,9$, $\delta W_{average} \leq 0,9$	$\delta l_{average} \leq 0,9$, $\delta W_{average} \leq 0,9$	$\delta l_{average} \leq 0,9$, $\delta W_{average} \leq 0,9$	$\delta l_{average} \leq 0,9$, $\delta W_{average} \leq 0,9$	$\delta l_{average} \leq 0,9$, $\delta W_{average} \leq 0,9$	$\delta l_{average} \leq 0,9$, $\delta W_{average} \leq 0,9$	$\delta l_{average} \leq 0,9$, $\delta W_{average} \leq 0,9$	mm
ABRASION RESISTANCE	TS EN 13329	AC3; ≥ 2000	AC3; ≥ 2000	AC3; ≥ 2000	AC4; ≥ 4000	AC4; ≥ 4000	AC5; ≥ 6000	AC5; ≥ 6000	AC5; ≥ 6000	Rev
SMALL-DIAMETER BALL IMPACT RESİSTANCE	TS EN 13329 / TS EN 438-2	≥ 8 N	≥ 8 N	≥ 8 N	≥ 12 N	≥ 12 N	≥ 15 N	≥ 15 N	≥ 15 N	N, mm
LARGE-DIAMETER BALL IMPACT RESİSTANCE	TS EN 13329 / TS EN 438-2	≥ 500 mm	≥ 500 mm	≥ 500 mm	≥ 750 mm	≥ 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)	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	25.000 cycles - no damage	25.000 cycles - no damage	25.000 cycles - no damage	25.000 cycles - no damage	25.000 cycles - no damage	25.000 cycles - no damage	25.000 cycles - no damage	-
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	No damage shall be visible	No damage shall be visible	No damage shall be visible	No damage shall be visible	-
APPERANCE, SURFACE DEFECTS	TS EN 438-2	Dirtiness ; ≤ 1,00 mm^2 / m^2 Fiber partical ;Scratches ≤ 10 mm / m^2 If two kind of defects appear on the same board, the limit values decrease to half.	Dirtiness ; ≤ 1,00 mm^2 / m^2 Fiber partical ;Scratches ≤ 10 mm / m^2 If two kind of defects appear on the same board, the limit values decrease to half.	Dirtiness ; ≤ 1,00 mm^2 / m^2 Fiber partical ;Scratches ≤ 10 mm / m^2 If two kind of defects appear on the same board, the limit values decrease to half.	Dirtiness ; ≤ 1,00 mm^2 / m^2 Fiber partical ;Scratches ≤ 10 mm / m^2 If two kind of defects appear on the same board, the limit values decrease to half.	Dirtiness ; ≤ 1,00 mm^2 / m^2 Fiber partical ;Scratches ≤ 10 mm / m^2 If two kind of defects appear on the same board, the limit values decrease to half.	Dirtiness ; ≤ 1,00 mm^2 / m^2 Fiber partical ;Scratches ≤ 10 mm / m^2 If two kind of defects appear on the same board, the limit values decrease to half.	Dirtiness ; ≤ 1,00 mm^2 / m^2 Fiber partical ;Scratches ≤ 10 mm / m^2 If two kind of defects appear on the same board, the limit values decrease to half.	Dirtiness ; ≤ 1,00 mm^2 / m^2 Fiber partical ;Scratches ≤ 10 mm / m^2 If two kind of defects appear on the same board, the limit values decrease to half.	-
STATIC INDENTATION	TS EN ISO 24343-1	≤ 0,05	≤ 0,05	≤ 0,05	≤ 0,05	≤ 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	Not worse than 4	Not worse than 4	Not worse than 4	Not worse than 4	-
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	Fl ≥ 1 kN/m Fs ≥ 2 kN/m	N / mm^2

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