

QUALITYMANAGEMENT ISO 9001

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 Revision 02
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TECHNICAL DATA SHEET

EUROLIGHT

Area of application: Furniture construction, interior fittings, postforming elements, door construction

The surface layers of EUROLIGHT boards consist of high-quality 3 or 4 mm thin chipboard or 8 mm chipboard that conforms to EN 312 board type P2 with raw, sanded surface or high-quality EURODEKOR coating to EN 14322. Bonding with a hexagonal honeycomb core takes place using a high-quality formaldehyde-free polyurethane adhesive system. The hexagonal honeycombs are made from 100% recycled paper.



EUROLIGHT with 8 mm surface layer Properties	Unit	Board thickness		
		38 mm	50 mm	60 mm
	[mm]	38 mm	50 mm	60 mm
Density	[kg/m ³]	330	265	230
Internal bond EN 319 - Surface layer to honeycomb - Surface layer to frame of 10 und 38 mm - Surface layer to frame of 65 mm	[N/cm ²]	≥ 10 ≥ 80 ≥ 30		
Screw extraction resistance EN320 Full board with 8 mm surface layer	[N]	> 570		
Deflection DIN 68874-1 After 28 days - Test load 150 kg/m ² Distance from axis 1000 mm Without Frame or edge	[mm]	≤ 4.0	≤ 3.0	≤ 2.0
Soundproofing coefficient R'_w	[dB]	28	26.5	25.5
Compression strength	[kg/cm ²]	≤ 1.5		
Fire behaviour category EN 13501-1		D-s1, d0		

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EUROLIGHT with 4 mm surface layer Properties	Unit	Board Thickness								
		16mm	19mm	22mm	25mm	28mm	30mm	38mm	40 mm	50mm
	[mm]									
Density	[kg/m ³]	440	380	330	300	270	250	200	195	160
Internal bond EN 319 - Surface layer to honeycomb - Surface layer to frame of 10 und 38 mm - Surface layer to frame of 65 mm	[N/mm ²]	≥ 0.15 ≥ 0.8 ≥ 0.3								
Screw extraction resistance EN320 - Postframe board with 3 and 4 mm surface layer with 38 mm chipboard frame (vertically)	[N]	> 580								
Deflection DIN 68874-1 After 28 days - Test load 150 kg/m ² Distance from axis 1000 mm Without Frame or edge	[mm]	-	-	-	≤ 12.0	≤ 10.0	≤ 9.0	≤ 7.0	≤ 5.0	≤ 3.0
Compression strength	[kg/cm ²]	≤ 1.5								

EUROLIGHT with 3 mm surface layer Properties	Unit	Board thickness								
		16mm	19mm	22mm	25mm	28mm	30mm	38mm	40 mm	50mm
	[mm]									
Density	[kg/m ³]	340	290	260	240	210	200	160	155	130
Internal bond EN 319 - Surface layer to honeycomb - Surface layer to frame of 10 und 38 mm - Surface layer to frame of 65 mm	[N/mm ²]	≥ 0.15 ≥ 0.8 ≥ 0.3								
Screw extraction resistance EN320 - Postframe board with 3 and 4 mm surface layer with 38 mm chipboard frame (vertically)	[N]	> 580								
Deflection DIN 68874-1 After 28 days - Test load 150 kg/m ² Distance from axis 1000 mm Without Frame or edge	[mm]	-	-	-	≤ 14.0	≤ 11.0	-	-	-	≤ 7.0
Compression strength	[kg/cm ²]	≤ 1.5								

MORE FROM WOOD.



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General Tolerances	Unit	Board thickness
Thickness tolerance EN 324 Related to nominal measurement	[mm]	± 0.3
Length and width tolerances EN 324 - Full board - Cut boards with frames	[mm]	± 5.0 ± 2.0
Curvature EN 14322 - Full board - Cut boards with frames	[mm/m]	≤ 2.0 ≤ 2.0
Squareness EN 324 - Full board - Cut boards with frames	[mm/m]	≤ 2.0 ≤ 2.0
Edge straightness EN 324 - Full board - Cut boards with frames	[mm/m]	± 1.5 ± 1.5
Edge splinters EN 14323 - Full board - Cut boards with frames	[mm]	≤ 10.0 ≤ 3.0
Limit deviation density, average value EN 323	[%]	± 10
Formaldehyde content EN 120	[mg/100g]	E1*
Temperature resistance	[°C]	≤ 80° C

*1 On delivery

*2 Formaldehyde content (surface layer) E1:

According to the "Regulation on the Prohibition of Chemicals (ChemVerbotsV)" annex to § 1, clause 3 from 14th October, 1993 in connection with the publication of the BGA in the federal health sheet 10/91 (s. 487-489) about "testing method for particleboard", uncoated particleboard must not exceed a perforator limit value EN 120 (photometrical - EN 120) of 8 mg HCHO/100g over-dry board at moisture content of 6,5 %. The flexible half-years mean value is max. 6,5 mg HCHO/100g over-dry board.

*3 Formaldehyde content (surface layer) E1 EPF-S CARB 2:

2:1 According to the "Regulation on the Prohibition of Chemicals (ChemVerbotsV)" annex to § 1, clause 3 from 14th October, 1993 in connection with the publication of the BGA in the federal health sheet 10/91 (s. 487-489) about "testing method for particleboard", uncoated particleboard must not exceed a perforator limit value EN 120 (photometrical - EN 120) of 8 mg HCHO/100g over-dry board at moisture content of 6,5 %. The flexible half-years mean value is max. 6,5 mg HCHO/100g over-dry board.
2:2 According to the EPF (European Panel Federation) uncoated particleboard with reduced formaldehyde release must not exceed perforator limit value (photometrical - EN 120) of 4 mg HCHO/100g over-dry board at moisture content of 6,5 %.
2:3 According to the California Air Resources Board (CARB) regulation CCR-17-93120.2(a) - Phase 2.
2:4 According to 2:2 and 2:3 the raw particleboard corresponds to the IKEA formaldehyde specification IOS MAT 0003, version AA-10899-9.
2:5 Coated particleboard with reduced formaldehyde release – perforator limit value (photometrical - EN 120) of 5,0 mg/100g over-dry board at moisture content of 6,5 %.

Provisional note:

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