



## FunderPlan

The biological element in timber construction

interior

for  
people  
who  
create

# FunderPlan Construction engineering

**Classification:** Fiberboard according to EN 316  
**Test standard:** EN 622  
**Technical class:** HB.HLA2 (Heavy-duty load-bearing boards for use in humid conditions)  
 Utilization class 1 according to ENV 1995-1

PROPERTIES	TEST METHOD/ REFERENCE STANDARD	UNIT	VALUE
<b>MECHANICAL PROPERTIES</b>			
Density	EN 323	kg/m <sup>3</sup>	> 1000
Thickness	EN 324-1	mm	8,0
Bending strength	EN 319	N/mm <sup>2</sup>	> 0,65
Bending strength after boil test	EN 1087-1	N/mm <sup>2</sup>	> 0,35
Swelling in thickness (24h)	EN 317	%	< 12
Moisture content	EN 322	%	> 6
Formaldehyd <sub>1</sub>	EN 16516 EN 717-1	ppm ppm	< 0,1 ≤ 0,03
Formats	Productionformat Standardformat Cut into size	mm	5640 x 2150 2820 x 1875 upon request

<sup>1</sup> THE FORMALDEHYDE CONTENT IS IN THE RANGE OF NATURALLY GROWN WOOD

PROPERTIES	TEST METHOD/ REFERENCE STANDARD	UNIT	VALUE
<b>BUILDINGPHYSICAL PROPERTIES</b>			
μ-Value <sub>2</sub>	EN ISO 12572	-	185
s <sub>d</sub> -Value	DIN 4108	m	1,48
Fire behaviour <sub>3</sub>	EN 13986	-	D-s2, d0
Fire behaviour tested	EN 13501-1	-	D-s1, d0
Fire resistance tested	EN 13501-2:2016 EN 13501-2:2016	without inst.-level with inst.-level	REI 45 REI 60
λ-Value <sub>4</sub>	EN 13986	W/mK	0,18

<sup>2</sup> TESTING INSTITUTE OFI, PB NR.: 404.394-1, 04.07.2011

<sup>3</sup> TESTING INSTITUTE MA39, PB NR.: MA39-VFA2011-0960.01, 29.06.2011

<sup>4</sup> DETERMINATION OF THERMAL CONDUCTIVITY BY INTERPOLATION EN 13986

PROPERTIES	TEST METHOD/ REFERENCE STANDARD	UNIT	VALUE
<b>STATIC PROPERTIES (NON-DIRECTIONAL)</b>			
Flexural strength f <sub>m,k</sub>	EN 310	N/mm <sup>2</sup>	38
E-module (E <sub>o,mean</sub> )	EN 310	N/mm <sup>2</sup>	> 4.100
Charact. Embedment strength (Ø 1,8 mm)	EN 1995-1-1	N/mm <sup>2</sup>	87,6
Charact. Embedment strength measured (Ø 1,5 mm) <sub>5</sub>	ON EN 383	N/mm <sup>2</sup>	130,6
Charact. Embedment strength (Ø 3,0 mm)	EN 1995-1-1	N/mm <sup>2</sup>	75,1
Charact. Embedment measured (Ø 3,0 mm) <sub>5</sub>	ON EN 383	N/mm <sup>2</sup>	94,7
Shear strength f <sub>v,k</sub>	EN 12369-1	N/mm <sup>2</sup>	16
Modification coefficient k <sub>mod</sub> (KLD; Kurz; NKL 1)	EN 1995-1-1	N/mm <sup>2</sup>	0,85

<sup>5</sup> TESTING INSTITUTE TU GRAZ, PB NR.: PB10-417-1-01, 15.04.2010



FASTENING (Ø 1,8 MM BRACKET) <sub>6</sub>	MIN.	MAX.
Bracket spacing (S <sub>R</sub> )	2,7 cm	14,4 cm
Bracket spacing (S <sub>M</sub> )	–	28,8 cm
Minimum distance stressed edge (a <sub>4,t</sub> )		
Bracket (Ø 1,8 mm)	0,54 cm	–
Nail (Ø 2,5 mm)	0,75 cm	–
Design value of the wall resistance (F <sub>i,v,Rd</sub> )	38,76 kN	7,26 kN

<sup>6</sup> FASTENING ALSO POSSIBLE WITH 2.5 MM GROOVE NAILS

TEST PARAMETERS (ACCORDING TO NATUREPLUS)	LIMIT µg / m <sup>3</sup>	CONCENTRATION µg / m <sup>3</sup>
Total volatile organic compounds (TVOC)	≤ 300	123
Acetic acid		123
From that:		
Sum of bicyclic terpenes	≤ 200	n.n.
Sum of sensitizing substances according to MAK IV, BgVV-Liste Kat. A, TRGS 907	≤ 100	n.n.
Sum VOC (VOC, WOC, SVOC) classified in: Regulation (EG) Nr. 1272/2008: Category Carc. 2, Muta 2, Repr. 2; TRGS 905: K3, M3, R3; IARC: Group 2B; DFG MAK-List: III3	≤ 50	n.n.
Sum (VOC) without NIK	≤ 100	n.n.
Sum hardly volatile organic compounds (TSVOC)	≤ 100	n.n.
R-Value	≤ 1	0,246

PACKAGING	UNIT	VALUE
Palette	pc.	25
Palette	m <sup>2</sup>	132
LKW	Palette	19

<sup>7</sup> APPLIES FOR STANDARD FORMAT

DIMENSIONAL TOLERANCES	TEST METHODS	UNIT	VALUE
Thickness	EN 324-1	mm	± 0,2
Length	EN 324-1	mm	± 5,0
Width	EN 324-1	mm	± 3,0

INPUT MATERIALS	TRADE NAME	SOURCE OF SUPPLY	PRODUCT SHARE
Wood	Spruce / Beech	local	96,7%
Water repellants	HYDROWAX 46	Sasol Wax GmbH Worthdamm 13-27 D-20457 Hamburg	1,9%
Phenolic resin	BOROFEN BF-35	Fenolit d.d. SI-1353 Borovnica	1,4%

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## Important Instructions

### WOOD DUST

The danger of inhaling wood dust is expressly pointed out. The basis of the occupational health and safety strategy to be selected is the currently valid wood dust guidelines of the Federal Ministry for Work or outside Austria the respective applicable national regulations.

Link: [https://www.arbeitsinspektion.gv.at/cms/inspektorat/download.html?channel=CH3601&doc=CMS1449759568086&permalink=holzstaub\\_leitfaden](https://www.arbeitsinspektion.gv.at/cms/inspektorat/download.html?channel=CH3601&doc=CMS1449759568086&permalink=holzstaub_leitfaden)

### STORAGE

Store dry, level and covered. Use only when dry.

### INSTALLATION

It is expressly recommended that the product be adequately conditioned with regard to the usage humidity before installation. During processing, care must be taken that there are no flying bumps.

### DISPOSAL

Disposal can be done by landfilling, material or thermal recycling (in suitable plants) as biomass. The material is biodegradable. The following waste code numbers from the European Waste Catalog (EWC) are possible depending on the origin: z. B. 030105, 170201, waste code according to ÖNORM: 17201

### WARRANTY

FunderMax guarantees the quality of FunderPlan within the scope of the specified values and test standards. However, we are expressly not liable for defects in the substructure or assembly, as we have no influence on their execution. The local building regulations must be strictly observed, we assume no liability in this regard. All information corresponds to the current state of the art. The suitability for certain applications is not generally guaranteed. Please also see our general terms and conditions of sale and delivery.

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