FUNDERMAX

Star Favorit Technical data sheet

Version: 1
Code: PI-3878
Valid from: **22.07.2014**

Type: MFB according to EN 14322
Wood-based panels – Melamine faced boards for interior uses

General requirements at delivery according to table 1:

Characteristic	Requirement	Test standard	Unit	Star Favorit	Star Favorit Superfront
Thickness tolerance Laminate thickness Class 1+2 board thickness ≥ 8 mm ≤ 20 mm	EN 14322	EN 14323	mm	± 0.3	+ 0.5 / - 0.5
Thickness tolerance Laminate thickness Class 1+2 board thickness > 20 mm	EN 14322	EN 14323	mm	± 0.5	+ 0.5 / - 0.5
Thickness tolerance Particle board B1 Laminate thickness Class 1+2 board thickness ≥ 15 ≤ 20 mm	EN 14322	EN 14323	mm	± 0.3	+ 0.3 / - 1.0
Thickness tolerance Particle board B1 Surface: mirror gloss (SG), high gloss (HG) or real metal	EN 14322	EN 14323	mm	+ 0.3 / - 1.0	+ 0.3 / - 1.0
Thickness tolerance Surface: mirror gloss (SG), high gloss (HG) or real metal board thickness ≤ 15 mm	EN 14322	EN 14323	mm	± 0.5	+ 0.5 / - 1.0
Thickness tolerance Surface: mirror gloss (SG), high gloss (HG) or real metal board thickness > 15 ≤ 20 mm	EN 14322	EN 14323	mm	± 0.5	+ 0.5 / - 1.0
Thickness tolerance Surface: mirror gloss (SG), high gloss (HG) or real metal board thickness > 20 mm	EN 14322	EN 14323	mm	+ 0.5 / - 1.0	+ 0.5 / - 1.0
Thickness within the panel of class 3A, 3B, 4 and surface mirror gloss (SG) (table 2) Thickness range ≤ 20 mm	EN 14322	EN 14323	mm	± 0.3	± 0.7
Thickness within the panel of class 3A, 3B,4 and surface mirror gloss (SG) (table 2) Thickness range > 20 mm	EN 14322	EN 14323	mm	± 0.5	± 1.0
Thickness within the panel *t* max – *t* min	EN 14322	EN 14323	mm	≤ 0.6	≤ 1.0
Length and width Complete format	EN 14322	EN 14323	mm	± 5	± 5
Length and width Cut to size*) available on request ± 0,5mm	EN 14322	EN 14323	mm	± 2.5	± 2.5
Length and width Tops	EN 14322	EN 14323	mm	± 1.0	± 1.0
Flatness thickness range ≤ 15 mm	EN 14322	EN 14323	mm/m	---	---

for people who create

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Characteristic	Requirement	Test standard	Unit	Star Favorit	Star Favorit Superfront
Flatness thickness range > 15 mm only with balanced structure of the surfaces	EN 14322	EN 14323	mm/m	≤ 2	≤ 2
Edge chipping Complete formats	EN 14322	EN 14323	mm	≤ 10	≤ 10
Edge chipping Cut to size *)	EN 14322	EN 14323	mm	≤ 3	≤ 3
Surface defects -points	EN 14322	EN 14323	mm^2/m^2	≤ 2	≤ 2
Surface defects -length	EN 14322	EN 14323	mm/m	≤ 20	≤ 20
Resistance to **scratching** **)	EN 14322	EN 14323	N	≥ 1.5	≥ 1.5
Resistance to **staining**	EN 14322	EN 14323	Grade	≥ 3	≥ 3
Resistance to **cracking**	EN 14322	EN 14323	Grade	≥ 3	≥ 3
Quality **Formaldehyde** release	EN 14322	EN 14323	Class	E1	E1

Some parameters, e.g. changes in temperature or relative humidity with at storage or at the building site, can cause an irreversible warping of panels or elements.

*) Cuts up to 2000 mm of edge length (reference: Rough cuts - no final cuts!).
**) Resistance to scratching dependent on decoration and structure.

Color matching and surface texture:

Characteristic	Requirement	Test standard	Unit	Star Favorit	Star Favorit Superfront
Color matching	EN 14322	EN 14323	Grade	4	4
Color matching Nacre and metallic decor	EN 14322	EN 14323	Grade	3	3
Surface texture	EN 14322	EN 14323	Grade	4	4

Classification according to table 2:

Characteristic	Requirement	Test standard	Unit	Star Favorit	Star Favorit Superfront
Resistance to **surface wear** depending on design uni-colored	EN 14322	EN 14323	Class	3A	3A
Resistance to **surface wear** depending on design Wood- and Fantasy- decor	EN 14322	EN 14323	Class	1	1
Resistance to **surface wear** depending on design Wood – decor ; abrasion-resistant	EN 14322	EN 438-2	Class	3B	3B

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Appendix A – Further characteristics – table A1:

Characteristic	Requirement	Test standard	Unit	Star Favorit	Star Favorit Superfront
Resistance to **cigarette burns**	EN 14323	EN 438-2	Grad	1	≥ 3
Resistance to **water vapour** gloss	EN 14323	EN 438-2	Grad	≥ 3	5
Resistance to **water vapour** color	EN 14323	EN 438-2	Grad	5	5
Resistance to **impact** falling steel ball; less diameter	EN 14323	EN 438-2	N (min.)	9	20
Light fastness Xenon arc lamp; Blue wool scale	EN 14322	EN 14323	Nr.	6	6
Gloss level	EN 14322	EN 14323	Determination of the difference between the reference and the tested sample		
Bonding strength	EN 14322	EN 311	N/mm²	≥ 0.9	≥ 0.9

Further specifications:

Characteristic		Requirement	Test standard	Unit	Star Favorit	Star Favorit Superfront
Right angled tolerance; complete formats		DIN 68765 1)		mm	± 5	± 5
Right angled tolerance; Cut to size *)		DIN 68765 1)		mm	± 2.5	± 2.5
Dimensional stability under change of climate with 20° C		DIN 68765 1)	DIN 53799	%	≤ 0.6	≤ 0.6
Bending strength	Thickness ≤13 mm	DIN 68765 1)	DIN 52362	N/mm²	17	18
	Thickness > 13 ≤ 20 mm	DIN 68765 1)	DIN 52362	N/mm²	16	17
	Thickness > 20 ≤ 25 mm	DIN 68765 1)	DIN 52362	N/mm²	15	16
	Thickness > 25 ≤ 32 mm	DIN 68765 1)	DIN 52362	N/mm²	13	14
	Thickness > 32 ≤ 40 mm	DIN 68765 1)	DIN 52362	N/mm²	11	12
Transverse tensile strength	Thickness ≤ 13 mm	DIN 68765 1)	EN 319	N/mm²	0.40	0.40
	Thickness > 13 ≤ 20 mm	DIN 68765 1)	EN 319	N/mm²	0.35	0.35
	Thickness > 20 ≤ 25 mm	DIN 68765 1)	EN 319	N/mm²	0.30	0.30
	Thickness > 25 ≤ 32 mm	DIN 68765 1)	EN 319	N/mm²	0.24	0.24
	Thickness > 32 ≤ 40 mm	DIN 68765 1)	EN 319	N/mm²	0.20	0.20
Laminate thickness Class 1 ***)		DIN 68765 1)	ÖNORM C 9751	mm	≤ 0.14	---

Characteristic	Requirement	Test standard	Unit	Star Favorit	Star Favorit Superfront
Laminate thickness Class 2 ***)	DIN 68765 1)	ÖNORM C 9751	mm	≥ 0.14	≥ 0.45 ≤ 1.40
Laminate thickness Class 2 ****)	DIN 68765 1)	ÖNORM C 9751	mm	≥ 0.28	≥ 0.45 ≤ 1.40
Resistance to the **hot pot** gloss	---	EN 438-2 2)	Grad	5	≥ 4
Resistance to the **hot pot** color	---	EN 438-2 2)	Grad	5	5

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Modulus of Elasticity: for Standard 19mm MFB

	MFB	thickness [mm]	Test standard	Unit	flexural modulus of elasticity
Modulus of Elasticity Star Favorit and Star Favorit Superfront	Star Favorit Standard	19.1	EN 310	N/mm²	2840
	Superfront 0.5	19.5	EN 310	N/mm²	3500
	Superfront 1.0	20.6	EN 310	N/mm²	4020
	Superfront 1.5	21.1	EN 310	N/mm²	4230

[1)] Historical standard; Data only for information without legal claim.
[2)] Examination under the title "stability against dry heat ".
[3]) Drop High
[4]) Diameter of the impression
*) Cuts up to 2000 mm of edge length (reference: Rough cuts - no final cuts!)
***) Coating thickness; dependent on the gross weight of the impregnates and the structure of coating
***) Coating thickness; dependent on the gross weight of the impregnates, the structure of coating and the lamination construction

Types of substrates:

Basic version	Chip board E1 P2 ; for use within dry area according to EN 312-2
Versions on request	Chip board E1 P5 ; for use within humid area according to EN 312-5
	Chip board E1 B1 ; flame-retardant boards
	MDF

Fire performance:

Product name	Substrate	Standard	Unit	Value
Star Favorit	Chip board P2 E1	EN 13501-1	Class	D-s2,d0
	Chip board P5	EN 13501-1	Class	D-s2,d0
	Chip board B1	EN 13501-1 ÖNORM A 3800	Class	B-s1,d0
	MDF	EN 13501-1	Class	D-s2,d0
Star Favorit Superfront	Chip board P2 E1	EN 13501-1	Class	D-s2,d0
	Chip board P5	EN 13501-1	Class	D-s2,d0
	Chip board B1	EN 13501-1 ÖNORM A 3800	Class	B-s1,d0

General reference:

As a consequence of the constant improvement of our products, and/or possible changes of the relevant standards and legal requirements, no legal claim can be derived from the data in this product data sheet!