FALCO wood industry	**Product information** # Mirror Gloss 2.0 Technical data sheet for both sides Mirror Gloss	Site 1 / 3 Available from 01.09.2015

Type: Mirror Gloss according to EN 14322
Wood based panels – Melamine faced boards for interior use

General requirements at delivery according to table 1:

Characteristic	Requirement	Test standard	Unit	Mirror Gloss
Thickness tolerance Laminate thickness Class 1+2	EN 14322	EN 14323	mm	± 0,5
Thickness within the panel *t* max – *t* min	EN 14322	EN 14323	mm	≤ 1
Length and width Complete format	EN 14322	EN 14323	mm	± 0,5
Flatness Thickness range ≤15 mm	EN 14322	EN 14323	mm/m	-
Flatness Thickness range ≥ 15 mm Only with balanced structure of the surface	EN 14322	EN 14323	mm/m	≤ 2
Edge chipping Complete formats	EN 14322	EN 14323	mm	≤ 10
Surface defects - points	EN 14322	EN 14323	mm^2/m^2	≤ 2
Surface defects - length	EN 14322	EN 14323	mm/m	≤ 20
Resistance to **scratching***	EN 14322	EN 14323	N	≥ 1.5
Resistance to **staining**	EN 14322	EN 14323	Grade	≥ 3
Resistance to **cracking**	EN 14322	EN 14323	Grade	≥ 3
Quality **Formaldehyde** release	EN 14322	EN 14323	Class	E–LE

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.
*Resistance to scratching dependent on decoration and structure

Classification according to table 2:

Characteristic	Requirement	Test standard	Unit	Mirror Gloss
Resistance to surface wear Depending on design UNI-colour	EN 14322	EN 14323	Class	3B
Resistance to surface wear Depending on design Wood and Fantasy decor	EN 14322	EN 14323	Class	1
Resistance to surface wear Depending on design Wood décor abrasion-resistant	EN 14322	EN 438-2	Class	3B

Appendix A – Further characteristics – Table A1:

Characteristic	Requirement	Test standard	Unit	Mirror Gloss
Resistance to **cigarette burns**	EN 14323	EN 438-2	Grad	1
Resistance to **water vapour** gloss	EN 14323	EN 438-2	Grad	4
Resistance to **water vapour** colour	EN 14323	EN 438-2	Grad	3
Resistance to **impact** Falling steel ball, less diameter	EN 14323	EN 438-2	N (min)	9
Resistance to **impact** Falling steel ball, large diameter	EN 14323	EN 438-2	mm (min) mm (max)	800* 11**
Lights fastness Xenon arc lamp; Blue wool scale	EN 14322	EN 14323	Nr.	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 / mm^2	≥ 0,9

* Drop high
** Diameter of the impression

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Further specifications:

Characteristic		Requirement	Test standard	Unit	Mirror Gloss
Right angled tolerance; complete formats		DIN 68765[1)]		mm	± 5
Right angled tolerance; cut-to-size*		DIN 68765[1)]		mm	± 2,5
Dimensional stability under change of climate with 20° C		DIN 68765[1)]	DIN 53799	%	≤ 0,6
Bending strength	Thickness ≤ 13 mm	DIN 68765[1)]	DIN 52362	N / mm²	17
	Thickness ≥ 13 to 20 mm	DIN 68765[1)]	DIN 52362	N / mm²	16
	Thickness ≥ 20 to 25 mm	DIN 68765[1)]	DIN 52362	N / mm²	15
	Thickness ≥ 25 to 32 mm	DIN 68765[1)]	DIN 52362	N / mm²	13
	Thickness ≥ 32 to 40 mm	DIN 68765[1)]	DIN 52362	N / mm²	11
Transverse tensile strength	Thickness ≤ 13 mm	DIN 68765[1)]	EN 319	N / mm²	0,40
	Thickness ≥ 13 to 20 mm	DIN 68765[1)]	EN 319	N / mm²	0,35
	Thickness ≥ 20 to 25 mm	DIN 68765[1)]	EN 319	N / mm²	0,30
	Thickness ≥ 25 to 32 mm	DIN 68765[1)]	EN 319	N / mm²	0,24
	Thickness ≥ 32 to 40 mm	DIN 68765[1)]	EN 319	N / mm²	0,20
Laminate thickness Class 1**)		DIN 68765[1)]	ÖNORM C 9751	mm	≤ 0,14
Laminate thickness Class 2**)		DIN 68765[1)]	ÖNORM C 9751	mm	≥ 0,14
Resistance to **hot pot** gloss		-	EN 438-2[2)]	Grad	3
Resistance to **hot pot** colour		-	EN 438-2[2)]	Grad	4

[1)] Historical standard, data only for information without legal claim.
[2)] Examination under the title “stability against dry heat”.
* Cuts up to 2000 mm of edge (reference: Rough cuts – no final cuts!)
** Coating thickness, dependent on the gross weight of the impregnates and the structures

Modulus of Elasticity: for Standard 19 mm MFB

MFB	Thickness (mm)	Test standard	Unit	Flexural modulus of elasticity
Mirror Gloss	19,1	EN 310	N / mm²	2840

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!